Level 3 NVQ Certificates and Diplomas in Printing (5400)

September 2017 Version 2.1





Qualification at a glance

Subject area	Printing
City & Guilds number	5400
Age group approved	All
Assessment	Portfolio of evidence
Automatic Approval	Available
Support materials	Qualification handbook
Registration and certification	Consult the Walled Garden/Online Catalogue for last dates

Title and level	City & Guilds number	Accreditation number
Level 3 NVQ Diploma in Digital Pre-Press for Print - Digital Artwork	5400-30	600/2128/7
Level 3 NVQ Diploma in Digital Pre-Press for Print - Digital Printing	5400-31	600/2128/7
Level 3 NVQ Diploma in Machine Printing	5400-32	600/2130/5
Level 3 NVQ Certificate in Print Finishing - General Print	5400-37	600/2129/9
Level 3 NVQ Certificate in Print Finishing - Newspapers and Periodicals	5400-38	600/2129/9

Version and date	Change detail	Section
2.1 September 2017	Added TQT details	Qualification at a glance and Structure
	Deleted QCF	Throughout
2.0 Dec 2011	Machine Printing pathways all moved under one City & Guilds complex 5400-32.	Structure



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Unit 320	Manage mail processing machinery	169
Unit 321	Manage casing-in machinery	173
Unit 322	Manage case making machinery	177
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1 Introduction



This document tells you what you need to do to deliver the qualifications:

Area	Description
Who are the qualifications for?	They are for candidates who work or want to work in the printing sector
What do the qualifications cover?	They allow candidates to learn, develop and practise the skills required for employment and/or career progression in the printing sector.
Are the qualifications part of a framework or initiative?	They serve as competence qualifications, in the printing Apprenticeship framework.
What opportunities for progression are there?	They allow candidates to progress into employment.

Structure

To achieve the **Level 3 Diploma in Digital Pre-press for Print – Digital Artwork**, learners must achieve **29** credits from the mandatory units and a minimum of **8** credits from the optional units available.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory		(must achieve all 29 credits)	
Y/502/8504	208	Send and receive digital files	1
L/601/9390	301	Promote and maintain Health and Safety in a print related working environment	4
D/601/9393	302	Contribute to improving the effectiveness of the print organisation	5
J/502/8501	303	Plan work to meet production requirements	4
T/502/8526	304	Maintain digital systems in working order	4
L/601/9406	305	Understanding the print industry	4
A/502/8558	326	Design and produce creative digital colour artwork for print	7
Optional		(minimum of 8 credits)	
D/502/8505	206	Make photopolymer plates for flexographic printing	4

Unit accreditation number	City & Guilds unit	Unit title	Credit value
K/502/8507	207	Make gravure cylinders	4
A/502/8513	209	Use of scanning techniques to create digital images	6
L/502/8502	211	Output digital image carriers for print	8
M/502/8508	212	Prepare stencils for printing	4
K/601/9400	213	Make lithographic printing plates	4
J/502/8532	308	Manage colour reproduction in digital pre-press	4
L/502/8533	309	Produce approved colour proofs from digital artwork	4
R/502/8534	310	Preflight digital files	4
M/502/8511	327	Plan and produce edited images	4

To achieve the **Level 3 Diploma in Digital Pre-press for Print – Digital Printing**, learners must achieve **32** credits from the mandatory units and a minimum of **5** credits from the optional units available.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory		(must achieve all 32 credits)	
Y/502/8504	208	Send and receive digital files	1
L/601/9390	301	Promote and maintain Health and Safety in a print related working environment	4
D/601/9393	302	Contribute to improving the effectiveness of the print organisation	5
J/502/8501	303	Plan work to meet production requirements	4
T/502/8526	304	Maintain digital systems in working order	4
L/601/9406	305	Understanding the print industry	4
J/502/8529	311	Manage colour digital printing machines	6
F/502/8531	312	Control the use of variable data with digital printing machines	4
Optional		(minimum of 5 credits)	
Y/601/9392	228	Materials handling, transportation and storage within the print working environment	4
H/601/9430	233	Set and run booklet making machinery	5
A/601/9417	234	Set and run guillotines	5

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Y/601/9439	240	Set and run multi-knife trimming machinery	4
J/502/8532	308	Manage colour reproduction in digital pre-press	4
L/502/8533	309	Produce approved colour proofs from digital artwork	4
R/502/8534	310	Preflight digital files	4
A/502/8558	326	Design and produce creative digital colour artwork for print	7

To achieve the Level 3 Diploma in Machine Printing – Sheet-Fed Lithography/Screen Printing/Over-Printing Machines/Web-Fed Lithography/Flexographic Printing/Gravure Printing, learners must achieve 31 credits from the mandatory units and a minimum of 6 credits from the optional units available.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory		(must achieve all 31 credits)	
L/601/9390	301	Promote and maintain Health and Safety in a print related working environment	4
D/601/9393	302	Contribute to improving the effectiveness of the print organisation	5
J/502/8501	303	Plan work to meet production requirements	4
L/601/9406	305	Understanding the print industry	4
K/601/9395	306	Maintain print equipment in working order	6
D/601/9426	307	Manage printing machines	8
Optional		(minimum of 6 credits)	
D/502/8505	206	Make photopolymer plates for flexographic printing	4
L/502/8502	211	Output digital image carriers for print	8
M/502/8508	212	Prepare stencils for printing	4
K/601/9400	213	Make lithographic printing plates	4
M/601/9401	214	Prepare inks and coatings for printing	4
T/601/9402	215	Set and run numbering, bar-coding or inline data printing equipment	4
A/601/9403	216	Set and run ancillary printing machine equipment	5
F/601/9404	217	Set and run over-printing machinery	7

Unit accreditation number	City & Guilds unit	Unit title	Credit value
J/601/9405	218	Set and use ink drying equipment	3
D/601/9412	219	Prepare and maintain image carriers for printing	4
H/601/9413	220	Set and run die stamping printing machinery	6
F/601/9418	222	Set and run in-line converting or enhancing equipment	7
J/601/9419	223	Set and run in-line folding equipment	7
F/602/8626	227	Set and run in line automated stitch and trim equipment for newspaper and periodical production	4
A/601/9417	234	Set and run guillotines	5
R/601/9410	245	Set and run slitting and re-reeling equipment - adhesive label production	3

To achieve the **Level 3 Certificate in Print Finishing – General Print**, learners must achieve **23** credits from the mandatory units and a minimum of **8** credits from the optional units available.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory		(must achieve all 23 credits)	
L/601/9390	301	Promote and maintain Health and Safety in a print related working environment	4
D/601/9393	302	Contribute to improving the effectiveness of the print organisation	5
J/502/8501	303	Plan work to meet production requirements	4
L/601/9406	305	Understanding the print industry	4
K/601/9395	306	Maintain print equipment in working order	6
Optional		(minimum of 8 credits)	
J/601/9422	224	Set and run auto-packing, storage or palletising equipment	3
Y/601/9392	228	Materials handling, transportation and storage within the print working environment	4
L/502/8497	232	Set and run wire binding machinery	3
H/601/9430	233	Set and run booklet making machinery	5
Y/601/9439	240	Set and run multi-knife trimming machinery	4

Unit accreditation number	City & Guilds unit	Unit title	Credit value
L/601/9440	241	Set and run multiple hopper feeders	4
Y/601/9411	244	Set and run laminating equipment	4
R/601/9410	245	Set and run slitting and re-reeling equipment - adhesive label production	3
M/502/8556	314	Manage adhesive binding machinery	4
K/502/8586	315	Manage cutting and creasing machinery	9
T/502/8574	317	Manage foil blocking machinery	5
F/502/8593	318	Manage insetting-stitching-trimming machinery	9
M/502/8623	319	Manage guillotines	9
A/502/8589	320	Manage mail processing machinery	5
T/502/8560	321	Manage casing-in machinery	7
T/502/8557	322	Manage case making machinery	6
F/502/8562	323	Manage folding machinery	8
R/502/8565	324	Manage auto-fed sewing machinery	7
L/502/8581	325	Manage carton enhancing machinery	7

To achieve the **Level 3 Certificate in Print Finishing – Newspapers and Periodicals**, learners must achieve **23** credits from the mandatory units and a minimum of **10** credits from the optional units available.

Unit accreditation number	City & Guilds unit	Unit title	Credit value
Mandatory		(must achieve all 23 credits)	
L/601/9390	301	Promote and maintain Health and Safety in a print related working environment	4
D/601/9393	302	Contribute to improving the effectiveness of the print organisation	5
J/502/8501	303	Plan work to meet production requirements	4
L/601/9406	305	Understanding the print industry	4
K/601/9395	306	Maintain print equipment in working order	6
Optional		(minimum of 10 credits)	
F/602/8626	227	Set and run in line automated stitch and trim equipment for newspaper and periodical production	4
K/502/8619	313	Manage materials handling for newspaper and periodicals print	6

		finishing	
R/502/8632	316	Manage automated inserting equipment for newspapers and periodicals	6

Total Qualification Time

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

Title and level	GLH	TQT
Level 3 NVQ Diploma in Digital Pre-Press for Print - Digital Artwork	151	370
Level 3 NVQ Diploma in Digital Pre-Press for Print - Digital Printing	151	370
Level 3 NVQ Certificate in Print Finishing - General Print	122	310
Level 3 NVQ Certificate in Print Finishing - Newspapers and Periodicals	122	310

Centre requirements



Approval

If your Centre is approved to offer the qualification Level 3 NVQ in Printing (5158-31/32/33/34/35/36) you will receive automatic approval for the new Level 3 NVQ in Printing (5400-30/31/32/37/38).

To offer this [these] qualification[s], new centres will need to gain both centre and qualification approval. Please refer to the *Centre manual* -Supporting Customer Excellence for further information.

Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualification[s] before designing a course programme.

Resource requirements

Centre staffing

Staff delivering these qualifications must be able to demonstrate that they meet the following occupational expertise requirements. They should:

be occupationally competent or technically knowledgeable in the area[s] for which they are delivering training and/or have experience of providing training. This knowledge must be to the same level as the training being delivered
have recent relevant experience in the specific area they will be assessing
have credible experience of providing training.

Centre staff may undertake more than one role, eg tutor and assessor or internal verifier, but cannot internally verify their own assessments.

Assessors and internal verifiers

Assessors

As	sessors	s must:
		mpetent to make qualitative judgements about the units they sessing. Illustrations of competence could include the assessor
		Having achieved the award themselves
		Having substantial demonstrable experience in the job roles they are assessing
		Being in a day-to-day line management or quality assurance role with responsibility for the job roles they are assessing
		possession of or working towards the A1/A2 award or hold the 33 award

	Assessment, and in line with current guidance on assessment
	practice issued by the regulatory authorities and City & Guilds
	Maintain appropriate evidence of development activities to ensure their assessment skills and occupational understanding are current (CPD)
	Have a working knowledge of awards and a full understanding of that part of the award for which they have responsibility.
Int	ernal Verifiers
Int	ernal Verifiers must:
	Be in possession of or working towards the V1 award or hold the D34 award, as recommended by SQA/QCA and supported by an appropriate CPD record
	Carry out their duties in accordance with the current NOS for Verification, and in line with current guidance on verification practice issued by the regulatory authorities and City & Guilds
	Maintain appropriate evidence of development activities to ensure their verification skills and occupational understanding are current (CPD)
	Have expertise and knowledge of awards and a full understanding of that part of the award for which they have responsibility.

Continuing professional development (CPD)

Centres must support their staff to ensure that they have current knowledge of the occupational area, that delivery, mentoring, training, assessment and verification is in line with best practice, and that it takes account of any national or legislative developments.

Candidate entry requirements

City & Guilds does not set entry requirements for these qualifications. However, centres must ensure that candidates have the potential and opportunity to gain the qualifications successfully.

Age restrictions

City & Guilds cannot accept any registrations for candidates under 16 as these qualifications are not approved for under 16s.

Legal restrictions apply to candidates under the age of 18 working unsupervised with children. Centres and candidates should be fully aware of minimum age requirements in their home nation and any implications for completing assessments.



2 Delivering the qualification

Initial assessment and induction

An initial assessment of each candidate should be made before the start of their programme to identify:

if the candidate has any specific training needs
 support and guidance they may need when working towards their qualifications
 any units they have already completed, or credit they have accumulated which is relevant to the qualifications
 the appropriate type and level of qualification.

We recommend that centres provide an induction programme so the candidate fully understands the requirements of the qualifications, their responsibilities as a candidate, and the responsibilities of the centre. This information can be recorded on a learning contract.

Recording documents

Candidates and centres may decide to use a paper-based or electronic method of recording evidence.

City & Guilds endorses several ePortfolio systems, including our own, **Learning Assistant**, an easy-to-use and secure online tool to support and evidence learners' progress towards achieving qualifications. Further details are available at: **www.cityandguilds.com/eportfolios**.

City & Guilds has developed a set of *recording forms* including examples of completed forms, for new and existing centres to use as appropriate. *Recording forms* are available on the City & Guilds website.

Although new centres are expected to use these forms, centres may devise or customise alternative forms, which must be approved for use by the external verifier, before they are used by candidates and assessors at the centre. Amendable (MS Word) versions of the forms are available on the City & Guilds website.



3 Assessment

Candidates must:
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Evidence The projective of the condidate's evidence should come from direct
The majority of the candidate's evidence should come from direct observations of competence in the real workplace, unless specified in the award specific annex. Other types of acceptable evidence include, but are not limited to:
□ Witness Testimony
☐ Logs/Diaries kept by Candidates
$\ \square$ Recorded answers to questions posed by the Assessor
☐ Recorded/Transcribed Interviews with the Candidate
☐ Recorded use of up-to-date commercial/industrial equipment
 e-portfolios and other forms of digital media
☐ Works documentation attributable to the candidate
□ Both interim and final internal verification.
Location of Assessment
Although the majority of the candidate's evidence should come from direct observations of competence in the real work place, in exceptional circumstances simulation of the real workplace may be allowed. Occasions in which this may be approved are listed under 'Simulation'.
Simulation

Any simulation must be approved in advance by the External Verifier, and clear reasons must be given for its intended use. Simulation should not be the primary source of a candidate's claim to competence

☐ Limited other procedures that can not be practically performed in

the workplace, and for which sufficient evidence can not be collected

Simulation is generally not acceptable. The exceptions to this are:

Third Party Witnesses

Dealing with emergenciesDealing with accidents

through other means.

☐ Certain pre-approved real time simulators

Third party 'witnesses' must also be competent to make judgements about the activity(ies) for which they are providing the testimony. As the assessment decision lies with the Assessor, it is their responsibility to verify this and, where challenged, to justify their acceptance of third party 'witness testimony' to the Internal Verifier.

Recognition of prior learning (RPL)

Recognition of prior learning means using a person's previous experience or qualifications which have already been achieved to contribute to a new qualification.

RPL is allowed and is not sector specific.



4 Units

Availability of units

The following units can also be obtained from The Register of Regulated Qualifications: http://register.ofqual.gov.uk/Unit

Structure of units

Th	ese units each have the following:
	City & Guilds reference number
	unit accreditation number (UAN)
	title
	level
	credit value
	unit aim
	relationship to NOS, other qualifications and frameworks
	endorsement by a sector or other appropriate body
	information on assessment
	learning outcomes which are comprised of a number of assessment criteria
	notes for guidance.

Summary of units

Unit	Unit title	Credits	Unit number (UAN)
206	Make photopolymer plates for flexographic printing	4	D/502/8505
207	Make gravure cylinders	4	K/502/8507
208	Send and receive digital files	1	Y/502/8504
209	Use of scanning techniques to create digital images	6	A/502/8513
211	Output digital image carriers for print	8	L/502/8502
212	Prepare stencils for printing	4	M/502/8508
213	Make lithographic printing plates	4	K/601/9400
214	Prepare inks and coatings for printing	4	M/601/9401
215	Set and run numbering, bar-coding or inline data printing equipment	4	T/601/9402

Unit	Unit title	Credits	Unit number (UAN)
216	Set and run ancillary printing machine equipment	5	A/601/9403
217	Set and run over-printing machinery	7	F/601/9404
218	Set and use ink drying equipment	3	J/601/9405
219	Prepare and maintain image carriers for printing	4	D/601/9412
220	Set and run die stamping printing machinery	6	H/601/9413
222	Set and run in-line converting or enhancing equipment	7	F/601/9418
223	Set and run in-line folding equipment	7	J/601/9419
224	Set and run auto-packing, storage or palletising equipment	3	J/601/9422
227	Set and run in line automated stitch and trim equipment for newspaper and periodical production	4	F/602/8626
228	Materials handling, transportation and storage within the print working environment	4	Y/601/9392
232	Set and run wire binding machinery	3	L/502/8497
233	Set and run booklet making machinery	5	H/601/9430
234	Set and run guillotines	5	A/601/9417
240	Set and run multi-knife trimming machinery	4	Y/601/9439
241	Set and run multiple hopper feeders	4	L/601/9440
244	Set and run laminating equipment	4	Y/601/9411
245	Set and run slitting and re-reeling equipment - adhesive label production	3	R/601/9410
301	Promote and maintain Health and Safety in a print related working environment	4	L/601/9390
302	Contribute to improving the effectiveness of the print organisation	5	D/601/9393
303	Plan work to meet production requirements	4	J/502/8501
304	Maintain digital systems in working order	4	T/502/8526
305	Understanding the print industry	4	L/601/9406
306	Maintain print equipment in working order	6	K/601/9395

Unit	Unit title	Credits	Unit number (UAN)
307	Manage printing machines	8	D/601/9426
308	Manage colour reproduction in digital pre-press	4	J/502/8532
309	Produce approved colour proofs from digital artwork	4	L/502/8533
310	Preflight digital files	4	R/502/8534
311	Manage colour digital printing machines	6	J/502/8529
312	Control the use of variable data with digital printing machines	4	F/502/8531
313	Manage materials handling for newspaper and print periodicals finishing	6	K/502/8619
314	Manage adhesive binding machinery	4	M/502/8556
315	Manage cutting and creasing machinery	9	K/502/8586
316	Manage automated inserting equipment for newspapers and periodicals	6	R/502/8632
317	Manage foil blocking machinery	5	T/502/8574
318	Manage insetting-stitching- trimming machinery	9	F/502/8593
319	Manage guillotines	9	M/502/8623
320	Manage mail processing machinery	5	A/502/8589
321	Manage casing-in machinery	7	T/502/8560
322	Manage case making machinery	6	T/502/8557
323	Manage folding machinery	8	F/502/8562
324	Manage auto-fed sewing machinery	7	R/502/8562
325	Manage carton enhancing machinery	7	L/502/8581
326	Design and produce creative digital colour artwork for print	7	A/502/8558
327	Plan and produce edited images	4	M/502/8511

Unit 206 Make photopolymer plates for flexographic printing

UAN:	D/502/8505
Level:	Level 2
Credit value:	4
GLH:	30
Relationship to NOS:	This unit is linked to Proskills NOS Unit 105
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to carry out the production and output of photopolymer plates for flexographic printing. It includes identifying the work to be done, exposing plates, processing plates, checking the quality of output.
Learning outcome 1	he learner will:
1. be able to prepare p	hotopolymer plates for print
Assessment criteria	
The learner can:	
1.1 obtain and check	the job specification
1.2 ensure the requirate available	ed type, quantity and quality of materials are
1.3 check that:	
□ negatives match with artwork	
□ elements mat	-
	ensity matches the manufacturer's tions and their company's quality standard
	sure unit in accordance with job requirements
1.5 handle and load p procedures	late material in accordance with company
_	terial so that all image elements fall accurately ate
1.7 select exposure va characteristics aft	alues which produce the required plate er processing
1.8 expose the assem	bly in accordance with job requirements
1.9 pass the plate for	processing.

Learning outcome The learner will:		The learner will:	
2. b	2. be able to process photopolymer plates		
Asse	ssment criteria		
The	The learner can:		
2.1 load the processor according to specified instructions, handling materials in accordance with company health and safety guidelines			
2.2	set and operate processor in accordance with job requirements and safe operating procedures		
2.3	trim the finished plate to the required size		
2.4	check that the finished plate meets the company's standard for: thickness relief height		
	□ spots and blemishes		
2.5	keep waste to a minimum and dispose of it in accordance with company procedures		
2.6	report when the	e plate is ready for production.	

Learning outcome The learner will: 3. know how to make photopolymer plates for flexographic printing Assessment criteria The learner can: describe what details are needed to produce the job 3.1 3.2 describe the quality standards relating to plate production 3.3 explain the key parts of a negative film which should be checked prior to output 3.4 describe the risks which arise when handling plates and materials and operate exposure units and how to avoid them 3.5 explain the plate making methods and the function of the equipment in use in the company explain the suitable safe lighting conditions to be used during 3.6 production 3.7 describe the make ready procedures for the plate making equipment in use 3.8 state the company's waste disposal procedures 3.9 state the company procedures for reporting machine faults and breakdown 3.10 explain faults than can occur, what causes them and how to correct them

3.11 describe how to recognise when to correct faults themselves and

when to ask for help.

Unit 206 Make photopolymer plates for flexographic printing

Supporting information

Guidance

 $\ensuremath{\mathsf{AC3.10}}$ – Candidates must explain at least two examples of faults that can occur.

Unit 207 Make gravure cylinders

UAN:	K/502/8507
Level:	Level 2
Credit value:	4
GLH:	30
Relationship to NOS:	This unit is linked to Proskills NOS Unit 106
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to carry out the preparation and production of gravure cylinders for print. The learner will also be required to know how to deal with faults and problems occurring during the process.

Lear	ning outcome	The learner will:	
1. b	1. be able to produce gravure cylinders for print		
Asse	Assessment criteria		
The	The learner can:		
1.1	obtain and chec	k the job specification	
1.2	ensure sufficien	t materials are available for the required job	
1.3	check that the cylinder is clean and suitable for the job requirements		
1.4		ss and adjustments necessary are made so that the ried out efficiently and safely	
1.5	select and prepa	are the required masks	
1.6	keep waste mat	erials to a minimum.	

Lear	ning outcome	The learner will:	
2. k	2. know how to prepare the gravure cylinder		
Asse	ssment criteria		
The	learner can:		
2.1	explain what de	tails are required to carry out the work required	
2.2	describe the types of cylinders in use in the company, and the types of job for which they are used		
2.3	explain why it is important to check that the cylinder is clean and suitable for the job		
2.4	explain the rang equipment	ge, use and limitations of processing materials and	
2.5	describe the rar	nge, use and limitations of processing materials	

and equipment waste2.6 explain the types of mask in use in the company.

Learning outcome The learner will:		The learner will:	
3. be	3. be able to transfer the image to the cylinder		
Assessment criteria			
The learner can:			
3.1 check that the equipment is ready for image transfer			
3.2	set and operate the equipment so that:		
	☐ the complete image is transferred to the cylinder		
	$\ \square$ the image is sharp and clean, at the required resolution		
	 the finished cylinder is free from faults and suitable for production 		
3.3	.3 keep waste to a minimum and dispose of it in accordance with company procedures		
3.4	report when the	e plate is ready for production.	

Lear	ning outcome	The learner will:	
4. k	now how to trans	sfer the image to the cylinder	
Asse	ssment criteria		
The	learner can:		
4.1	describe the cyl	inder making methods and equipment in use in	
4.2	explain the most suitable environmental conditions for production		
4.3	describe the risks associated with operating the equipment		
4.4	explain how to set up and operate the equipment		
4.5	describe the con	npany's waste disposal procedures	
4.6	-	thich can occur when making gravure cylinders, em and how to correct them	
4.7	-	n they must report when there are faults, and is ready for production.	

Unit 207 Make gravure cylinders Supporting information

Guidance

AC4.6 – Candidates must explain at least **three** faults.

Unit 208 Send and receive digital files

UAN:	JAN: Y/502/8504		
Level: Level 2			
Credit value:	1		
GLH:	9		
Relationship to NOS:	This unit is linked to Proskills NOS Unit 124		
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills		
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be competent in the sending and receiving of digital files over a telecommunications network, including as email attachments, by ISDN or through a virtual private network or similar permanent connection.		
Learning outcome	The learner will:		
1. be able to send dig	gital files by electronic means		
Assessment criteria			
The learner can: 1.1 confirm that the file(s) to be sent are in the format required by the customer and are of a suitable size for transmission 1.2 make sure the transmission method is suitable for the files to be transmitted taking into account for example: □ customer's preferences □ speed of transmission □ security □ cost			
 1.3 make sure that the information accompanying the digital file(s) is: detailed enough for the customer clear and accurate 1.4 send the files to the specified people complete all records on the transmission as required by company procedures. 			
-			
Learning outcome The learner will:			
2. be able to receive	digital files by electronic means		
Assessment criteria			
The learner can: 2.1 confirm that the digital communications systems are operating and are ready to receive incoming files			

- 2.2 check for incoming files in accordance with company guidelines
- 2.3 confirm that the required files have been received
- 2.4 save received files in accordance with company guidelines
- 2.5 complete all records on the files received in accordance with company guidelines.

 3. know how to send and receive digital files Assessment criteria The learner can: 3.1 explain how to check that virus software is up-to-date and functioning correctly on the host computer, why this is important and what to do if there is a problem 3.2 explain how to seek confirmation that digital files sent have been received as required, and when this has to be done to comply with company procedures 3.3 explain the company procedure when a digital file has been: sent to the wrong address sent to the correct address but in the wrong format 3.4 describe problems that could occur when sending digital files and how to overcome the problems
 The learner can: 3.1 explain how to check that virus software is up-to-date and functioning correctly on the host computer, why this is important and what to do if there is a problem 3.2 explain how to seek confirmation that digital files sent have been received as required, and when this has to be done to comply with company procedures 3.3 explain the company procedure when a digital file has been: sent to the wrong address sent to the correct address but in the wrong format 3.4 describe problems that could occur when sending digital files and how to overcome the problems
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 sent to the correct address but in the wrong format describe problems that could occur when sending digital files and how to overcome the problems
3.4 describe problems that could occur when sending digital files and how to overcome the problems
how to overcome the problems
3.5 explain the company procedure when a file has been received in the following situations:
☐ from a known source but unable to open
☐ from an unknown source
3.6 state how to deal with digital files in relation to the following:
☐ file conversion techniques
 file compression and decompression techniques
☐ file management.

Unit 209 Use of scanning techniques to create digital images

UAN:	A/502/8513
Level:	Level 2
Credit value:	6
GLH:	39
Relationship to NOS:	This unit is linked to Proskills NOS Unit 125
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to convert analogue material into digital form. It covers all aspects of scanning, including detailed intervention where automatic settings do not give the required result.

Lear	ning outcome	The learner will:	
1. b	e able to decide o	on the appropriate scanning approach	
Asse	ssment criteria		
The	learner can:		
1.1	make an accurate assessment of the suitability of the material for scanning		
1.2	make an accurate assessment of the scanner operations necessary to produce the required output		
1.3	check that the scanners available will produce the quality of output to meet customer requirements		
1.4		suitable scanning equipment for the material to the output required.	

Lear	ning outcome	The learner will:	
2. b	2. be able to prepare equipment and material for scanning		
Asse	ssment criteria		
The learner can:			
2.1	carry out any low-resolution scanning necessary to establish the required software values		
2.2	apply the required software values for:		
	\square the materia	l to be scanned	
	☐ the output	required	
2.3	ensure that the scanned, are cle	scanner to be used, and the material to be an	

- 2.4 handle the material to be scanned in accordance with Health and Safety guidelines
- 2.5 load the material to be scanned with regard to alignment and positioning.

Learning outcome	The learner will:		
3. be able to produce and save scanned images in line with the job specification and company standards			
Assessment criteria	Assessment criteria		
The learner can:			
3.1 produce scanne following:	d images which are correct in terms of the		
□ physical siz	e		
☐ file size			
□ content			
□ orientation			
□ colour			
□ sharpness			
□ brightness	(exposure)		
contrast			
•	space 8. systems		
□ output reso			
_	d images to the required image profiles		
	3.3 produce scanned images which are free of the following unwanted effects:		
□ physical de	fects — fingerprints, dust damage and scratches		
□ newton's ri	□ newton's rings		
□ moiré patte	rning from screened originals		
□ pixelisation	l		
□ posterisatio	on		
□ halo effects			
I .	3.4 assess the scanned images against customer requirements and workplace standards		
3.5 detect any prob	-		
probable causes of the problems			
3.6 maintain the confidentiality of customer material			
3.7 save the scanned image data files in the required format.			
Learning outcome	The learner will:		
4. know how to plan	and capture digital images		
Assessment criteria			
The learner can:			

4.1 explain the law affecting printing in relation to:

□ copyright and ownership of images

defamation

obscenityincitementforgery

	□ data protection		
4.2	describe how to ensure the safe handling of customer material as required by their company		
4.3	state the company requirements for the safe storage and archiving of digital artwork		
4.4	describe the operation of equipment for the following:		
	□ the set-up of scanning equipment		
	\square the operation of scanning equipment		
4.5	describe how Digital Imaging is affected by:		
	 colour theory, eg: additive and subtractive systems such as RGB and CMYK; colour gamuts 		
	☐ the relationship between image size, file size and resolution		
	$\hfill\Box$ file formats for digital images - the differences between them and the reasons for using them		
	☐ the range of methods, equipment, material and software appropriate to the imaging requirements		
	 methods of controlling contrast, density and colour characteristics during scanning 		
	$\hfill\Box$ the assessment of material for scanning - potential problems and solutions		
	 colour management: how to set up, maintain and use image profiles 		
4.6	describe how to identify and correct faults which affect the quality of the scanned image		
4.7	describe the principal activities involved with machine cleaning and calibration including:		
	□ the choice and use of suitable cleaning agents and lubricants		
	$\hfill\Box$ the methods used to set up and calibrate a scanner for use.		

Unit 209 Use of scanning techniques to create digital images

Supporting information

Guidance

AC4.6 – Candidates must describe at least **three** faults which affect the quality of the scanned image.

Unit 211 Output digital image carriers for print

UAN:	L/502/8502	
Level:	Level 2	
Credit value:	8	
GLH:	50	
Relationship to NOS:	This unit is linked to Proskills NOS Units 129 and 131	
Endorsement by a sect or regulatory body:	This unit is endorsed by Proskills.	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to produce image carriers for printing utilizing digital system technology, eg computer to plate (flexo, gravure, litho), film output technology.	
Learning outcome	The learner will:	
1. be able to impose images electronically		
Assessment criteria		
The learner can:		
1.1 obtain all the details needed for the job		
1.2 select an appropriate imposition scheme by taking into account:		
☐ the quantity required		
\square the working size of the job		
□ paper size		
printing machine sizes and the number available		
the type of printing machine to be used		
colour fall (where appropriate)		
	the method of finishing	
	retrieve or create an imposition template that meets the requirements of the imposition scheme	
-	identify and correct data, system and software problems which will affect the production of impositions.	

Learning outcome The learner will:		The learner will:	
2. b	2. be able to prepare images for processing		
Asse	ssment criteria		
The	The learner can:		
2.1 check that the job files are compatible with the imaging software to be used			
2.2	.2 set the required output parameters to meet the job specification, taking into account, for example :		
	<pre>resolution</pre>		
	□ screen ruling and dot type		
	□ screen angle		
	□ orientation		
	□ position on the image carrier		
	register or other marks		
	☐ right/wrong reading		
	□ emulsion up/down		
	separations	settings	
2.3	•	equired image carrier is loaded into the output	
2.4	check that the output device is calibrated and prepared for operation.		

Lear	ning outcome	The learner will:	
3. b	3. be able to produce and process image carrier		
Assessment criteria			
The learner can:			
3.1	send the data to the output device		
3.2	after imaging, process the image carrier as required		
3.3	check that output meets the job requirements for quality and specification		
3.4	store finished o	utput in line with company guidelines	
3.5	keep records fo as required by t	r quality assurance and administrative purposes heir company	
3.6	archive digital f	iles in accordance with company procedures.	

Learning out	come 7	Гhe learner will:	
4. know how	4. know how to produce computer-generated image carriers		
Assessment c	Assessment criteria		
The learner can:			
4.1 explain	1 explain what information is required to start the work		
	describe factors to consider when selecting an appropriate imposition scheme		
compu	describe problems that can occur during the process of producing computer generated image carriers and suggest possible solutions		
1 -	explain the company procedures for reporting faults and delays to production		

4.5	describe the operation of equipment for the following:
	$\ \square$ the set-up of digital imaging equipment and software
	the operation of digital imaging equipment and software
4.6	state the characteristics of sensitive material in printing
4.7	explain how to deal with digital files in relation to the following:
	☐ file conversion techniques
	☐ file compression and decompression systems
	☐ file management.

Unit 211 Output digital image carriers for print

Supporting information

Guidance

AC4.2 – Candidates must describe at least **three** factors to consider when selecting an appropriate imposition scheme

AC4.3 – Candidates must describe at least **three** problems that can offer during the process of producing computer generated image carriers.

Unit 212 Prepare stencils for printing

UAN:	M/502/8508
Level:	Level 2
Credit value:	4
GLH:	26
Relationship to NOS:	This unit is linked to Proskills NOS Unit 219
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to identify mesh and frame size, including preparing the mesh and checking the tension. Also the learner will be required to prepare the mesh material, apply and dry stencil material, position the photopositive; also exposing, developing and drying the stencil.

Learning outcome		The learner will:	
1. t	1. be able to prepare the mesh		
Assessment criteria			
The learner can:			
1.1	obtain and check the job specification		
1.2	identify and select the mesh type and frame size		
1.3	check the tension of the mesh		
1.4	check that the condition of new and used mesh is suitable for use		
1.5	prepare the mesh so that it will accept the stencil.		

Learning outcome	The learner will:		
2. know how to prepare the mesh			
Assessment criteria			
The learner can:			
2.1 explain how to	explain how to identify the image size		
2.2 explain how to	explain how to identify the machine to be used		
2.3 explain how to	explain how to select the frame		
2.4 explain how to	explain how to identify the required mesh material		
	describe why it is important that reclaimed mesh is free from		
	stains and ghost images and how to confirm this		
2.6 describe how to	describe how to treat mesh material		
_ <u>*</u>	explain how to check that stencil residue has been completely		
removed from i	removed from reclaimed screens		
2.8 describe the he	alth and safety requirements when using		

chemicals and what personal protective equipment to use
2.9 describe the company procedure for reporting unsuitable frames and meshes.

Learning outcome The learner will:

3. be able to prepare stencils for production

Assessment criteria

The learner can:

- 3.1 obtain and check the job specification
- 3.2 obtain the photo-positive and check that it is fit for use
- 3.3 apply the stencil material to the screen and dry it in accordance with manufacturer's and company guidelines
- 3.4 position the photo-positive accurately on the screen
- 3.5 confirm that the exposure is correct to suit the stencil system
- 3.6 develop the stencil ensuring the water temperature and pressure are set in accordance with manufacturer's and company guidelines
- 3.7 dry stencils, checking that drying is even over the entire surface
- 3.8 check the stencils are free from fault.

Learning outcome The learner will:

4. know how to prepare stencils

Assessment criteria

The learner can:

- 4.1 describe the methods to use in the production of the different types of stencil
- 4.2 explain how to choose the type of stencil to use
- 4.3 explain reasons for choosing a particular stencil type
- 4.4 describe the materials available for the production of stencils
- 4.5 explain what safe light conditions are used in stencil processing
- 4.6 explain why it is important to position the photo-positive accurately and how the machine affects positioning
- 4.7 describe how to achieve the optimum exposure
- 4.8 describe the effects of under- and over-exposure
- 4.9 explain how the condition of the stencil affects the printed image
- $4.10\,$ describe common faults associated with preparing the stencils for print.

Unit 212 Prepare stencils for printing Supporting information

Guidance

AC4.10 – Candidates must describe at least **two** common faults associated with preparing stencils for print.

Unit 213 Make lithographic printing plates

UAN:	K/601/9400
Level:	Level 2
Credit value:	4
GLH:	26
Relationship to NOS:	This unit is linked to Proskills NOS Unit 251.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to make plates and store them for reuse.

Lear	ning outcome	The learner will:
1. b	1. be able to produce lithographic printing plates	
Asse	ssment criteria	
The	learner can:	
1.1	1.1 identify the required plate material for platemaking to meet the job specification	
1.2	.2 identify the required files and materials for exposing the plate to meet the job specification	
1.3	check that the imaging/exposure and any on line processing equipment is ready for operation	
1.4	load the plate into the imaging/exposure equipment in accordance with manufacturer's instructions	
1.5	begin the imaging company guidel	ng/exposure of the plate, in accordance with ines
1.6	on completion of the job specification of the job specification of the complete of the complet	of imaging/exposure, develop the plate to meet ation
1.7	1.7 check the plate for correct exposure, completeness of image and that it is free from damage.	

Lear	ning outcome	The learner will:
2. know how to maintain lithographic printing plates		ntain lithographic printing plates
Asse	Assessment criteria	
The learner can:		
2.1	explain how and	d when to clean and protect plates for re-use
2.2 explain the conditions and procedure for storage of plates.		

Learning outcome The learner will:

3. know how to produce lithographic printing plates

Assessment criteria

The learner can:

- 3.1 explain the types of lithographic printing plates and their uses
- 3.2 explain the process for producing a lithographic printing plate
- 3.3 explain checks to make before beginning the production process
- 3.4 describe common faults in plate making and plate processing, their causes and how to correct them
- 3.5 explain how and why, to report a fault that is not able to be corrected either due to lack of knowledge or lack of authority.

Unit 213 Make lithographic printing plates Supporting information

Guidance

AC3.3 – Candidates must explain at least **three** checks to make before beginning the production process.

AC3.4 – Candidates must describe at least **three** common faults.

Unit 214 Prepare inks and coatings for printing

UAN:	M/601/9401
Level:	Level 2
Credit value:	4
GLH:	29
Relationship to NOS:	This unit is linked to Proskills NOS Unit 252
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to prepare printing inks and coatings for printing, either to achieve a specified colour or to alter the characteristics of the inks or coatings to suit the process conditions or substrate being printed.

Lear	ning outcome	The learner will:
1. b	be able to mix and match ink to meet the production specification	
Asse	ssment criteria	
The	learner can:	
1.1	identify the mix	and the inks required from the job instructions
1.2	obtain the required quantity and types of inks to make up the batch to meet the job specification	
1.3	use company procedures for estimating and measuring the quantities required to produce the required mix in the required batch size(s)	
1.4	produce the mix	x, following company procedures
1.5	match a sample methods	against the specification, using approved test
1.6	record product	details in line with company requirements.

Lear	ning outcome	The learner will:
	know how to adjust viscosity and tack to suit materials or print conditions	
Asse	Assessment criteria	
The learner can:		
2.1	explain the adju	stments that can be made to viscosity or tack
2.2	list suitable med	lium with which to adjust the viscosity and tack
2.3	explain how to it achieved.	dentify the required viscosity or tack has been

Learning outcom	me The learner v	vill:
3. be able to store inks and coatings in accordance with company procedures		s in accordance with company
Assessment criteria		
The learner can:		
	0	
	ce with company gu	
3.2 ensure containers are marked in accordance with company procedures		
3.3 record th	e stock control detai	ls required by the company.

Lear	ning outcome	The learner will:	
4. k	know how to prepare inks and coatings for printing		
Asse	ssment criteria		
The	learner can:		
4.1	4.1 explain where and how to obtain information on the job requirements		
4.2	-	ration of two of the following pieces of equipment: g and checking equipment	
	□ viewing equ	iipment	
	□ spectropho	tometers	
4.3	explain common causes	n problems with inks and coatings, and their likely	
4.4	explain the adm faults/problems	inistrative procedure for recording and reporting	
4.5	explain quality a	assurance and control in relation to:	
	techniques	for controlling quality – testing, sampling	
	• •	for controlling quality – light standards for colour ectrophotomers, colour reference books	
4.6	describe the typ	es and characteristics of inks and coatings.	

Unit 214 Prepare inks and coatings for printing

Supporting information

Guidance

AC4.3 – Candidates must explain at least **three** common problems with inks and coatings and their likely causes.

Unit 215 Set and run numbering, barcoding or inline data printing equipment

UAN:	T/601/9402
Level:	Level 2
Credit value:	4
GLH:	30
Relationship to NOS:	This unit is linked to Proskills NOS Unit 253
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set and monitor numbering, bar-coding or inline data printing equipment. The numbering equipment may be conventional numbering 'clocks' or 'blocks' or ink-jet, thermal or laser technology.

Lear	ning outcome	The learner will:
	1. be able to set up numbering, bar-coding or non-impact printing equipment	
Asse	ssment criteria	
The	learner can:	
1.1	obtain and chec	k the job specification
1.2	determine the sequence, orientation and position of the numbering or data on the sheet	
1.3	for multiple sequential numbering, calculate the starting number for each number position	
1.4	set the numbering device or print head to produce a clean image without causing physical damage to the substrate to be printed	
1.5	check that any sequential numbering will operate and count in the right direction	
1.6	check that any batch coding data is set-up accurately and any barcode images can be read by a barcode scanning device	
1.7	ensure the working environment is safe for production	
1.8	ensure the output meets the job specifications and company quality standard prior to full production.	

Learning outcome The learner will: 2. be able to operate and monitor the quality of numbering, bar-coding or non-impact printing during production Assessment criteria The learner can: 2.1 monitor that any numbering or variable data is maintained in

- sequence
- 2.2 check that the numbering, bar-coding or other data can be read, eg by using a 'reading' device such as a barcode scanner
- 2.3 run the printing machinery at the optimum speed.
- 2.4 keep up the supply of materials and consumables throughout the run $\,$
- 2.5 check that quality standards and job specifications are met.

Learr	ning outcome	The learner will:	
3. know how to set and monitor numbering, bar-coding or inline data printing equipment			
Asses	Assessment criteria		
The l	earner can:		
3.1	explain how to s	start up and shut down the machinery for:	
	normal ope	ration	
	emergency	situations	
3.2	explain the type of information required to ensure the equipment can be set correctly and where and when to obtain it		
3.3	describe the identification and assessment of printing options and the stages in the printing process from pre-press to printed product		
3.4 describe the operation of equipment for the following:			
	the operationprinting equ	on of numbering, bar-coding or non-impact inline uipment	
	the principl 'check' digit	es of barcode construction, including the use of	
3.5	explain the prin	ciples of impact and non-impact numbering and ting	
3.6	-	ms that can occur during the set up or operation ossible solutions.	

Unit 215 Set and run numbering, barcoding or inline data printing equipment

Supporting information

Guidance

AC3.6 – Candidates must describe at least **three** problems that can occur.

Unit 216 Set and run ancillary printing machine equipment

UAN:	A/601/9403
Level:	Level 2
Credit value:	5
GLH:	35
Relationship to NOS:	This unit is linked to Proskills NOS Unit 254
Endorsement by a sector or regulatory body:	This unit is endorsed by Proksills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to prepare and monitor the performance of printing machine equipment. Ancillary printing machine equipment is any piece of equipment which is associated with (and usually connected to) a printing machine but does not form part of the main printing machine itself.

Lear	ning outcome	The learner will:	
1. b	e able to set anci	llary printing machine equipment for use	
Assessment criteria			
The l	learner can:		
1.1	obtain and check the job specification		
1.2	identify and obtain the materials required to meet the job		
	specification		
1.3	ensure the working environment is safe for production		
1.4	set the ancillary equipment to meet the job specification.		

Lear	rning outcome	The learner will:	
2. 1	2. be able to operate the ancillary equipment		
Asse	Assessment criteria		
The	The learner can:		
2.1	operate the machinery at the required production speed and in accordance with company guidelines		
2.2	keep up the sup	ply of materials throughout the run	
2.3	monitor the out quality standar	put to ensure the job specification and company ds are met.	

Lear	ning outcome	The learner will:	
3. k	3. know how to set and run ancillary printing machine equipment		
Asse	ssment criteria		
The l	learner can:		
3.1	explain how to	start up and shut down the machinery for:	
	normal ope	ration	
	emergency	situations	
3.2		check that print equipment is ready for effective	
	operation		
3.3	explain where to obtain information on the setting and operation of machinery		
3.4	make adjustme	ons that can be overcome by adjustments ,how to nts to the settings to meet the job specifications ure the machine is safe for use after adjustments e	
3.5	-	ms that can occur when operating machinery that olved by adjustment and the company procedure them.	

Unit 216 Set and run ancillary printing machine equipment

Supporting information

Guidance

AC3.2 – Candidates must give at least **three** examples of how to check print equipment is ready for effective operation.

AC3.4 – Candidates must describe at least **three** situations.

AC3.5 – Candidates must describe at least **two** problems.

Unit 217 Set and run over-printing machinery

UAN:	F/601/9404
Level:	Level 2
Credit value:	7
GLH:	45
Relationship to NOS:	This unit is linked to Proskills NOS Unit 255
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and operate printing machinery designed to print onto a pre-made product. It also includes problem solving.

Learnir	ng outcome	The learner will:	
1. be a	1. be able to set up an over-printing machine for production		
Assessi	Assessment criteria		
The lea	rner can:		
1.1 o	obtain and check the job specification		
1.2 ic	identify and obtain the materials required for the job		
1.3 e	ensure the working environment is safe for production		
1.4 s	4 set the inserting equipment to meet the job specification		
1	ensure the output meets the job specifications and company quality standard prior to full production.		

Lear	ning outcome	The learner will:	
2. b	2. be able to run over-printing machinery effectively		
Asse	ssment criteria		
The	learner can:		
2.1	run the printing machinery at the optimum speed		
2.2	keep up the supply of materials and consumables throughout the		
	run		
2.3	check that quali	ty standards and job specifications are met	
2.4	-	on and quality assurance details in line with	
	company requir	rements	
2.5	follow the comp	pany procedure for the removal of waste.	

Learning outcome		The learner will:
3. know how to set and operate over-printing machinery		
Asses	ssment criteria	
The l	earner can:	
3.1	explain how to	obtain details of the work required
3.2	explain how to	start up and shut down over printing machinery
	in:	
	normal ope	ration
	emergency	situations
3.3	explain the com	pany procedure for obtaining authorisation to
	begin production	on and why this is important
3.4	-	itification and assessment of printing options,
	_	ages in the printing process from pre-press to
	printed product	
3.5	-	eration of over-printing machinery
3.6	explain the prin	ciples of the over-printing process that is used
3.7	explain how to	identify faults which:
	affect the q	uality of the image
	□ produce a s	hortfall in output
	□ create risks	to health and safety.

Unit 218 Set and use ink drying equipment

UAN:	J/601/9405	
Level:	Level 2	
Credit value:	3	
GLH:	23	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 256	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to use ink drying or ink curing equipment associated with printing machinery. Common ink drying/curing equipment includes: Ultra Violet (UV), Infra Red (IR) and hot air.	
Learning outcome	The learner will:	
1. be able to set up in	k drying equipment	
Assessment criteria		
The learner can:		
1.1 check that the dr	ying equipment is ready for production	
1.2 ensure the dryin or intensity requ	g equipment is set to operate at the temperature ired.	

Learning outcome	The learner will:		
2. be able to maintai	2. be able to maintain the quality of output from ink drying equipment		
Assessment criteria			
The learner can:			
2.1 monitor that the output meets the required quality in accordance with job specification, for example:			
 ink setting and hardening rates meet production requirements 			
□ the correct	temperature is maintained throughout the run		
□ the quality	of the image is maintained during drying activities		
2.2 stack work in a	ccordance with company guidelines.		

Learning outcome		The learner will:	
3. 1	3. know how to use ink drying equipment		
Asse	essment criteria		
The	learner can:		
3.1	3.1 explain how to obtain the information required to operate the ink drying equipment effectively		
3.2	describe how to	start up and stop ink drying equipment for:	
	normal use		
	emergency	situations	
3.3	3 explain the company procedure for the removal of waste from ink		
	drying equipment		
3.4		that can occur when operating ink drying	
	equipment, wha	at causes them and how to correct them	
3.5		s important to check that there is no build up of	
	material or com	bustible matter in or around the dryer	
3.6	-	and how to obtain the maintenance plan and	
	operating procedures for the ink drying equipment		
3.7	describe the co	mpany's procedure for reporting faults.	

Unit 218 Set and use ink drying equipment Supporting information

Guidance

AC3.4 – Candidates must describe at least **three** faults that can occur, their causes and how to correct them.

Unit 219 Prepare and maintain image carriers for printing

UAN:	D/601/9412
Level:	Level 2
Credit value:	4
GLH:	25
Relationship to NOS:	This unit is linked to Proskills NOS Unit 257
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to prepare and maintain image carriers and related consumables (such as blocks, pads, plates, or engraved cylinders).

Lear	ning outcome	The learner will:	
1. b	1. be able to prepare image carriers for printing		
Asse	Assessment criteria		
The learner can:			
1.1	1.1 identify and select the required image carrier(s) and any associated materials to meet the job specification		
1.2		nge carrier for use by fitting into/onto any ared carrier devices in accordance with company	

	guidelines
1.3	ensure the image carrier is located and fitted in accordance with
	manufacture and company guidelines prior to production.

Lear	ning outcome	The learner will:
2. k	now how to store	e image carriers
Assessment criteria		
The	learner can:	
2.1	explain how and when to clean and protect an image carrier	
2.2	explain how to report any image carrier wear or damage in line with company procedures	
2.3	explain the com carriers.	pany procedure for labelling and storing image

Learning outcome The learner will:

3. know how to prepare and maintain image carriers for printing

Assessment criteria

The learner can:

- 3.1 describe the operation of image carrier mounting equipment
- 3.2 describe the difference between direct and indirect image transfer, giving an example of each
- 3.3 describe faults than can occur with image carriers, what causes them and how to correct them
- 3.4 describe the company's quality control checks on image carriers
- 3.5 describe the company's procedure for reporting faults
- 3.6 explain the types of image carriers used in the company.

Unit 219 Prepare and maintain image carriers for printing

Supporting information

Guidance

AC3.3 – Candidates must describe at least two faults that can occur, their causes and how to correct them.

Unit 220 Set and run die stamping printing machinery

UAN:	H/601/9413	
Level:	Level 2	
Credit value:	6	
GLH:	41	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 260	
Endorsement by a sector regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to undertake all the steps required to make a die stamping machine ready for production, to run the machine to produce commercially acceptable work, and to assist in identifying and correcting faults with the equipment.	
Learning outcome	The learner will:	
1. be able to prepare	die stamping machinery for production	
Assessment criteria		
The learner can:		
1.1 obtain and check the job specification		
	ansport to run, so that:	
$\ \square$ the job stock is fed and forwarded without misses or double		
☐ the transport operates safely at the required running speed		
□ sheets are delivered squarely and form an even pile		
□ production times can be met		
1.3 fit and position the die, so that:		
☐ the die is secured		
☐ the die is square		
1.4 set the pressure to ensure the product will meet the job specification		
_	ensure the output meets the job specifications and company quality standard prior to full production.	

Lear	ning outcome	The learner will:
2. b	e able to run die	stamping machinery
Asse	ssment criteria	
The	learner can:	
2.1	run the die stan	nping machine at the required speed
2.2	follow the comp	pany procedures for the removal of waste
2.3	stack work in accordance with company guidelines.	

Learning outcome		The learner will:	
3. k	3. know how to set and operate die stamping printing machinery		
Asse	ssment criteria		
The	learner can:		
3.1	explain how to	start up and shut down die stamping print	
	machinery in:		
	normal ope	rations	
	emergency	situations	
3.2	explain the information required to set the machinery to run effectively and where to obtain it		
3.3	explain how to obtain and confirm authorisation to run the job and why this is important		
3.4	explain how to	dentify faults which:	
	affect the q	uality of the image	
	□ produce a s	hortfall in output	
3.5	make adjustme	ons that can be overcome by adjustments, how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments e	
3.6	-	ms that can occur when operating machinery that elved by adjustment and the company procedure them.	

Unit 220 Set and run die stamping printing machinery

Supporting information

Guidance

AC3.5 – Candidates must describe at least **three** situations.

AC3.6 – Candidates must describe at least **two** problems.

Unit 222 Set and run in-line converting or enhancing equipment

UAN:	F/601/9418
Level:	Level 2
Credit value:	7
GLH:	44
Relationship to NOS:	This unit is linked to Proskills NOS Unit 262
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set and run in-line converting and/or enhancing equipment on a printing machine. In-line converting or enhancing equipment is equipment which is used to apply a coating or other image-enhancing material to the substrate or any form of finishing or converting technique which is run in-line immediately before or after the printing units. It includes techniques such as cutting and creasing, rotary die-cutting, laminating, embossing, foiling and coating.

Lear	ning outcome	The learner will:	
1. b	1. be able to set in-line converting or enhancing equipment		
Asse	ssment criteria		
The	learner can:		
1.1	obtain and chec	k the job specification	
1.2	identify and obt	ain the materials required for the job	
1.3	ensure the working environment is safe for production		
1.4	set the in line co	onverting equipment to meet the job specification	
	taking into consideration, for example:		
	\Box the size, typ	oe and caliper of the substrate	
	grain direct	ion	
	press runni	ng speed	
		rmes, cylinders, blankets, etc are mounted onto unit to allow effective production	
	any enhanc	ing materials (eg foils, coatings, laminates)	
	controlled i	removal of waste	
	\square production	times	
1.5	-	ut meets the job specifications and company d prior to full production.	

Lear	ning outcome	The learner will:	
	2. be able to run in-line converting or enhancing equipment		
Asse	essment criteria	<u> </u>	
The	learner can:		
2.1 operate the machinery at the required production speed, and in accordance with company guidelines			
2.2	keep up the supply of materials throughout the run		
2.3	monitor the output to ensure the job specification and company quality standards are met		
2.4	record production information in accordance with company requirements		
2.5	follow the comp	pany procedures for the removal of waste	
2.6	stack or pack fir approved metho	nished work in accordance with company od.	

Lear	ning outcome	The learner will:	
	3. know how to set and run in-line converting or enhancing equipment		
Asse	ssment criteria		
The	learner can:		
3.1	explain how to s	start up and shut down the machinery for:	
	normal ope	ration	
	emergency	situations	
3.2	describe how to operation	check that the equipment is ready for effective	
3.3	explain where to of machinery	o obtain information on the setting and operation	
3.4	explain the company procedure for obtaining authorisation to begin production and why it is important to follow the procedure		
3.5	explain when, h the output	ow and what to monitor to ensure the quality of	
3.6	explain the com	pany procedure for the disposal of waste	
3.7	explain the type and their possib	es of faults that can affect the quality of output, ole causes	
3.8	make adjustme	ons that can be overcome by adjustments ,how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments	
3.9	-	ms that can occur when operating machinery that lived by adjustment and the company procedure them.	

Unit 222 Set and run in-line converting or enhancing equipment

Supporting information

Guidance

AC3.2 – Candidates must describe at least **three** examples of checks that can be done on equipment to confirm it's ready for operation/

AC3.5 – Candidates must explain at least **two** examples of things to monitor to ensure quality of output.

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.7 – Candidates must explain at least **two** types of faults and their possible causes.

AC3.8 – Candidates must describe at least **three** situations.

AC3.9 – Candidates must describe at least **two** problems.

Unit 223 Set and run in-line folding equipment

UAN:	J/601/9419
Level:	Level 2
Credit value:	7
GLH:	42
Relationship to NOS:	This unit is linked to Proskills NOS Unit 263
Endorsement by a sector regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set in-line folding equipment on a printing machine. It also requires knowledge of adjustments and problem solving.
Learning outcome	The learner will:
1. be able to set and	operate in-line folding equipment
Assessment criteria	
The learner can:	
1.1 obtain all necess	sary details for the job
1.2 ensure the work	king environment is safe for production
1.3 set the folding e requirements as	quipment ensuring that any register re met
1 2 5 0	g, stitching, sheeting or rotary cutting equipment duce the product to specification
1.5 ensure the output meets the job specifications and company quality standard prior to full production	
1.6 check output me	

Lea	rning outcome	The learner will:
2.	know how to set a	nd operate in-line folding equipment
Ass	essment criteria	
The	learner can:	
2.1	explain how to s	start up and shut down the equipment in:
	normal ope	ration
	emergency	situations
2.2	explain what infand where to ob	formation is required to set up and run the job otain it
2.3	explain how to i	dentify the cause of problems which:
	would redu	ce the rate of output
	cause dama	ge or distortion to the end product

- ☐ affect the efficient operation of equipment
- 2.4 describe situations that can be overcome by adjustments, how to make adjustments to the settings to meet the job specifications and how to ensure the machine is safe for use after adjustments have been made
- 2.5 describe problems that can occur when operating machinery that may not be resolved by adjustment and the company procedure for dealing with them.

Unit 223 Set and run in-line folding equipment

Supporting information

Guidance

AC2.4 – Candidates must describe at least **three** situations.

AC2.5 – Candidates must describe at least **two** problems.

Unit 224 Set and run auto-packing, storage or palletising equipment

UAN:	J/601/9422	
Level:	Level 2	
Credit value:	3	
GLH:	22	
Relationship to NOS:	This unit is linked to Proskills NOS Units 265 and 314	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set and run automatic packing, storage or palletising equipment at the end of a printing machine. It is also suitable for those who work on newspapers and periodicals.	
Learning outcome Th	e learner will:	
1. be able to set auto-page	cking, storage or palletising equipment	
Assessment criteria		
The learner can:		
1.1 obtain all details an	d materials required for the job	
set up the equipment, taking in to consideration, for example:quantities (as required in job specification) for batches, bundles or cartons are input		
product is wrapped without damage, distortion or waste		
 bundles are square, leave the stacker centrally at the selected running speed and in the required orientation 		
under wrap (where used) is applied		
	s freely without snagging	
$\ \square$ the required number of straps are applied.		

Lear	ning outcome	The learner will:	
2. b	be able to run auto-packing, storage or palletising equipment		
Assessment criteria			
The learner can:			
2.1	operate the equipment at the production speed and in accordance with company guidelines		
2.2	maintain the su	pply of packing materials throughout the run	
2.3	monitor that pa	cked/stored/palletised product meets the	

- company's quality standards
- 2.4 forward packaged products to the designated dispatch location with identification records in accordance with company guidelines.

Learning outcome The learner will:

3. know how to set and run auto-packing, storage or palletising equipment

Assessment criteria

The learner can:

- 3.1 describe the equipment used in the company for auto-packing, storage or palletising equipment
- 3.2 explain how to label the product once packaged in accordance with company procedures
- 3.3 describe problems that could occur when operating auto-packing, storage or palletising equipment and possible solutions
- 3.4 describe the company's procedure for recording and reporting problems affecting auto-packing, storage or palletising equipment.

Unit 224 Set and run auto-packing, storage or palletising equipment

Supporting information

Guidance

 $\mbox{AC3.3}$ – Candidates must describe at least \mbox{two} problems that could occur and possible solutions for them.

Unit 227 Set and run in line automated stitch and trim equipment for newspaper and periodical

production

UAN:	F/602/8626
Level:	Level 2
Credit value:	4
GLH:	28
Relationship to NOS:	This unit is linked to Proskills NOS Unit 250.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set and run in-line stitching-trimming machinery for Newspaper and Periodicals production. They will be expected to control the equipment whilst running production jobs to produce commercially acceptable work, and to understand how to identify and correct faults with the equipment.

Learning outcome		The learner will:				
1. b	1. be able to set stitching-trimming machinery					
Asse	Assessment criteria					
The learner can:						
1.1	obtain and check the job specification					
1.2	ensure the required type, quantity and quality of materials are available and loaded to meet the job specification					
1.3	ensure the working environment is safe for production					
1.4	set up the line so that the output meets the job specification, to include:					
	positioning	and condition of stitch				
1.5	-	ut meets the job specifications and company d prior to full production.				

Learning outo	come	The learner will:			
2. be able to	2. be able to run stitching-trimming machinery				
Assessment criteria					
The learner can:					
	run stitching-trimming machinery at the required speed, and in accordance with company guidelines				
2.2 keep up	keep up the supply of materials throughout the run				
	monitor the output to ensure the job specification and company quality standards are met				
1	record production information in accordance with company requirements				
2.5 follow t	the comp	any procedures for the removal of waste			
	the prod tion prod	uct is forwarded to the next stage in the cess.			

Learning outcome		The learner will:			
3. k	3. know how to set and run stitching-trimming machines				
Assessment criteria					
The	learner can:				
3.1	explain how to start up and shut down the machinery for:				
	\square normal operation				
	emergency	situations			
3.2	-	make to ensure effective operation of the			
	machinery				
3.3	explain where to obtain information on the setting and operation				
2.4	of machinery				
3.4	explain the company procedure for obtaining authorisation to begin production and why it is important to follow the procedure				
3.5	- -	ow and what to monitor to ensure the quality of			
	the outputr				
3.6	explain the company procedure for the disposal of waste				
3.7	define the possible causes of faults which can result in, for				
	example:				
		of unequal length			
	□ stitch legs r				
	stitches mis	5			
3.8		ons that can be overcome by adjustments ,how to			
	•	nts to the settings to meet the job specifications			
	have been made	ure the machine is safe for use after adjustments			
3.9		ms that can occur when operating machinery that			
	-	olved by adjustment and the company procedure			
	for dealing with				

Unit 227

Set and run in line automated stitch and trim equipment for newspaper and periodical production

Supporting information

Guidance

AC3.2 – Candidates must explain at least **three** checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 – Candidates must describe at least **three** situations.

Unit 228 Materials handling, transportation and storage within the print working environment

UAN:	Y/601/9392
Level:	Level 2
Credit value:	4
GLH:	25
Relationship to NOS:	This unit is linked to Proskills NOS Unit 312
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to identify, transport and store materials within the print working environment.
Learning outcome The	e learner will:
1. be able to identify and materials	select the required type and quantity of
Assessment criteria	
The learner can: 1.1 identify materials by their labels/identification marks 1.2 locate materials 1.3 check that materials match their markings 1.4 select the required type and quantity of materials.	
Learning outcome The	e learner will:
be able to handle and transport materials in accordance with company guidelines	
Assessment criteria	
The learner can: 2.1 handle the materials safely, and in accordance with company guidelines, taking into account, for example: handling equipment manual handling techniques personal protective equipment 2.2 transport the materials safely using the appropriate transportation methods and equipment as specified in company guidelines. To include: manual handling handling / handling/lifting equipment.	

Lear	ning outcome	The learner will:	
3. k	know the impact o	of incorrect handling and transporting of materials	
Asse	Assessment criteria		
The	The learner can:		
3.1	describe how materials can be damaged during the handling and transportation of materials.		
3.2		es of personal injury that can occur through ing and transportation of materials.	

Learning outcome		The learner will:	
	4. know how to position /store materials in accordance with organisational procedures.		
Asse	essment criteria		
The	The learner can:		
4.1	.1 explain factors to consider when positioning or storing materials		
4.2	explain the difficulties/hazards which can be encountered when positioning or storing materials		
4.3	0	o the difficulties/hazards which can be positioning or storing materials.	

Learning outcome	The learner will:	
5. be able to position or store materials in accordance with organisational procedures		
Assessment criteria		
The learner can:		
5.1 position or store materials, taking into account:		
 avoiding damage to the materials or surrounding objects 		
☐ security of materials		
 ease of access for further work. 		

Unit 228 Materials handling,

transportation and storage within the print working environment

Supporting information

Guidance

AC4.1 – Candidates must explain at least **three** factors to consider when positioning or storing materials.

AC4.2 – Candidates must explain at least **three** examples of difficulties/hazards which can be encountered when positioning or storing materials.

AC4.3 – Candidates must give solutions to all difficulties/hazards identified in AC4.2.

Unit 232 Set and run wire binding machinery

UAN:	L/502/8497
Level:	Level 2
Credit value:	3
GLH:	22
Relationship to NOS:	This unit is linked to Proskills NOS Unit 355.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to use wire binding machinery. The unit also contains problem solving.
Learning outcome 7	he learner will:
1. be able to set wire binding machinery	
Assessment criteria	
The learner can: 1.1 obtain and check the job specification 1.2 identify and obtain the materials required for the job 1.3 ensure the working environment is safe for production 1.4 set up wire binding machinery, so that: □ sheets are square	

Lear	ning outcome	The learner will:	
2. ł	2. be able to run wire binding machinery		
Asse	essment criteria		
The	learner can:		
2.1	2.1 operate the machinery at the required production speed, and in		
	accordance with	n company guidelines	
2.2	2.2 keep up the supply of materials throughout the run		
2.3	2.3 monitor the output to ensure the job specification and company		
	quality standards are met		
2.4	record production information in accordance with company		
	requirements		
2.5	follow the company procedures for the removal of waste		

 \square wire is fed without any damage to the wire or product

ensure the output meets the job specifications and company

□ production times can be met

quality standard prior to full production.

1.5

2.6 stack or pack finished work in accordance with company approved method.

Learning outcome The learner will:		The learner will:	
3. k	3. know how to set and run wire binding machinery		
Asses	ssment criteria		
The l	earner can:		
3.1	explain how to s	start up and shut down the machinery for:	
	normal ope	ration	
	emergency	situations	
3.2	explain checks t machinery	o make to ensure effective operation of the	
3.3	explain where to of machinery	o obtain information on the setting and operation	
3.4	explain the company procedure for obtaining authorisation to begin production and why it is important to follow the procedure		
3.5	explain when, how and what to monitor to ensure the quality of the output		
3.6	explain the company procedure for the disposal of waste		
3.7	define the possible causes of faults which can result in		
	□ sheets out o	of square	
	damaged w	ire or product	
3.8	make adjustme	ons that can be overcome by adjustments, how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments	
3.9		ms that can occur when operating machinery that lved by adjustment and the company procedure them.	

Unit 232 Set and run wire binding machinery

Supporting information

Guidance

AC3.2 – Candidates must explain at least **three** checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 – Candidates must describe at least **three** situations.

Unit 233 Set and run booklet making machinery

UAN:	H/601/9430
Level:	Level 2
Credit value:	5
GLH:	31
Relationship to NOS:	This unit is linked to Proskills NOS Unit 356.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and operate booklet making machinery. It includes knowledge of problems that can occur with this type of equipment.
Learning outcome The	e learner will:
1. be able to set booklet-	making machinery
Assessment criteria	
The learner can:	
1.1 obtain and check the	, -
_	the materials required for the job
1.3 ensure the working environment is safe for production	
1.4 set the collator to meet the job specification taking into	
consideration, for example: the size of the flat sheet	
the flat sheets are in the required sequence	
 each pile showing its different, accurately-positioned printed 	
image	
mis-feed and double detector(s) are set	
□ production times	
1.5 set the stitch-fold unit so that:	
☐ the staples are ¡	positioned as required by job specification
☐ the fold is made in the required position	
the settings are size	appropriate for the booklet thickness and
-	neets the job specifications and company or to full production.

Learn	ning outcome	The learner will:	
2. b	2. be able to run booklet making machinery		
Asses	ssment criteria		
The l	earner can:		
2.1	*	chinery at the required production speed and in company guidelines	
2.2	keep up the supply of materials throughout the run		
2.3	2.3 monitor the output to ensure the job specification and company quality standards are met		
2.4	record production information in accordance with company requirements		
2.5	follow the company procedures for the removal of waste		
2.6	stack or pack fir approved methor	nished work in accordance with company od.	

Learning outcome The lear		The learner will:	
3. k	3. know how to set and run booklet making machinery		
Asse	Assessment criteria		
The	learner can:		
3.1	•	start up and shut down the machinery for:	
	normal ope	ration	
	emergency	situations	
3.2	explain checks t machinery	to make to ensure effective operation of the	
3.3	explain where t of machinery	o obtain information on the setting and operation	
3.4	=	pany procedure for obtaining authorisation to and why it is important to follow the procedure	
3.5	explain when, h the output	ow and what to monitor to ensure the quality of	
3.6	explain the com	pany procedure for the disposal of waste	
3.7	define the possi example:	ble causes of faults which can result in, for	
	pages miss	ing or duplicated	
	wire stitche	es or staples missing, broken or misformed	
	wire stitche	es/staples and fold not aligned	
	\square trimming fa	aults such as out of square or wrong size	
	\square marking of	inside or outside pages	
3.8	make adjustme	ons that can be overcome by adjustments, how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments	
3.9	-	ms that can occur when operating machinery that olved by adjustment and the company procedure them.	

Unit 233 Set and run booklet making machinery

Supporting information

Guidance

 $\mbox{AC3.2}$ – Candidates must explain at least \mbox{three} checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 – Candidates must describe at least **three** situations.

Unit 234 Set and run guillotines

UAN:	A/601/9417	
Level:	Level 2	
Credit value:	5	
GLH:	33	
Relationship to NOS:	This unit is linked to Proskills NOS Units 357 and 309.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set and run guillotines, including knowledge of faults and problems that can occur with guillotines.	
Learning outcome Th	ne learner will:	
1. be able to set/program	mme and run guillotines	
Assessment criteria		
The learner can:		
1.1 obtain all details of	1.1 obtain all details of the work required	
1.2 identify and obtain the materials needed to meet the job specification		
1.3 check that the guillotine and work area is safe and ready for production		
1.4 follow manufacturers instruction to start up the guillotine		
1.5 set up the guillotine taking into consideration:		
 the use of an existing programme or the need to create a programmed cutting sequence 		
the required cut size(s) is(are) produced with minimum handling		
setting the back fence manually for each cut		
□ production time		
1.6 run the guillotine, r	1.6 run the guillotine, making sure that, for example:	
	square and accurately positioned	
	e does not cause marking or set-off	
_	monitor the output to ensure the job specification and company quality standards are met	
1.8 record production requirements	record production information in accordance with company requirements	
_	9 follow the company procedures for the removal of waste.	

Lear	ning outcome	The learner will:	
2. k	2. know how to run guillotines		
Asse	Assessment criteria		
The l	learner can:		
2.1	explain the info where to obtain	rmation required to carry out the work and it	
2.2	describe the principles of guillotining		
2.3	explain the risks associated with operating a guillotine, and how to avoid them		
2.4	explain how to start up and stop the guillotine in:		
	□ normal operation		
	emergency situations		
2.5	explain the com the machine.	pany's method for stacking of finished work from	

Lear	ning outcome	The learner will:
3. b	e able to monitor	quality of guillotine cutting
Asse	ssment criteria	
The learner can:		
3.1 check that the company's quality standards are being met		
3.2	record the quali	ty assurance details following company
	procedures.	

Learning outcome		The learner will:	
4. l	4. know how to monitor quality of guillotine cutting		
Asse	essment criteria		
The	learner can:		
4.1	describe the co	npany's quality standards for guillotine work	
4.2	describe faults with a product that can occur in guillotine work, how to identify and rectify them		
4.3	*	check that the machine is safe to operate, once have been corrected	
4.4	explain the company procedure for recording and reporting		

Unit 234 Set and run guillotines

Supporting information

Guidance

AC4.2 - Candidates must describe at least **three** faults.

Unit 240 Set and run multi-knife trimming machinery

UAN:	Y/601/9439
Level:	Level 2
Credit value:	4
GLH:	25
Relationship to NOS:	This unit is linked to Proskills NOS Unit 364
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and run multi-knife trimming machinery It includes the need to understand how to make adjustments and solve problems with this type of equipment.

Learning outcome		The learner will:	
1. b	1. be able to set multi-knife trimming machinery		
Asse	Assessment criteria		
The	learner can:		
1.1	obtain and chec	k the job specification	
1.2	identify and obt	ain the materials required for the job	
1.3	ensure the worl	king environment is safe for production	
1.4	set up the multi	-knife trimmer, so that:	
	piles are fed squarely into the trimmer		
	\square the clamp holds the pile firmly without marking		
	•	mmed squarely and delivered without damage or	
	distortion		
	the trimme	d size is within variations permitted by their	
	company		
	\square production times can be met		
1.5	-	ut meets the job specifications and company d prior to full production.	

Lear	ning outcome	The learner will:	
2. ł	e able to run mul	ti-knife trimming machinery	
Asse	Assessment criteria		
The learner can:			
2.1	•	chinery at the required production speed, and in company guidelines	
2.2	keep up the sup	ply of materials throughout the run	

- 2.3 monitor the output to ensure the job specification and company quality standards are met
 2.4 record production information in accordance with company
- requirements
 2.5 follow the company procedures for the removal of waste
- 2.6 stack or pack finished work according to the company's approved method.

Learning outcome The learner will:			
3. l	3. know how to set and run multi-knife trimming machinery		
Assessment criteria			
The learner can:			
3.1	3.1 explain how to start up and shut down the machinery for:		
	normal ope	ration	
	emergency	situations	
3.2	explain checks t machinery	o make to ensure effective operation of the	
3.3	explain where to of machinery	o obtain information on the setting and operation	
3.4		pany procedure for obtaining authorisation to n and why it is important to follow the procedure	
3.5	explain when, how and what to monitor to ensure the quality of the output		
3.6	explain the company procedure for the disposal of waste		
3.7	define the possible causes of faults which can result in, for		
	example:	lo out sino vonistion	
	•	le cut size variation s on cut surfaces	
		on cut surfaces	
	•	on bottom pages	
		s splitting at head or tail	
	□ books not s	1 0	
	□ creasing on	-	
3.8	•	ons that can be overcome by adjustments, how to	
3.0	make adjustmer	nts to the settings to meet the job specifications are the machine is safe for use after adjustments	
3.9	-	ms that can occur when operating machinery that lved by adjustment and the company procedure them.	

Unit 240 Set and run multi-knife trimming machinery

Supporting information

Guidance

 $\mbox{AC3.2}$ – Candidates must explain at least \mbox{three} checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 – Candidates must describe at least **three** situations.

Unit 241 Set and run multiple hopper feeders

UAN:	L/601/9440	
Level:	Level 2	
Credit value:	4	
GLH:	25	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 365	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and run multiple hopper feeder machinery. They will be expected to know how to make adjustments and solve problems with this type of equipment.	
Learning outcome	Γhe learner will:	
1. be able to set multiple hopper feeders		
Assessment criteria		
The learner can:		
1.1 obtain and check the job specification		
_	in the materials required for the job	
1.3 ensure the working environment is safe for production		
1.4 set up the hopper		
	prought together to give the required page	
sequence		
	fed squarely from hoppers to the transport chain	
 separation ensures that sections are transported squarely, without damage 		
	mes can be met	
1.5 ensure the outpu	ensure the output meets the job specifications and company	

Lear	ning outcome	The learner will:	
2. b	2. be able to run multiple hopper feeders		
Assessment criteria			
The	The learner can:		
2.1	2.1 run multiple hopper feeders at the required speed, safely and efficiently		
2.2	2.2 keep up the supply of materials throughout the run		
2.3	monitor the out	put to ensure the job specification and company	

quality standard prior to full production.

- quality standards are met record production information in accordance with company 2.4 requirements
- 2.5 follow the company procedures for the removal of waste
- stack or pack finished work for mailing or according to the 2.6 company's approved method.

Learning outcome		The learner will:	
3. k	3. know how to set and run multiple hopper feeders		
Assessment criteria			
The	The learner can:		
3.1	3.1 explain how to start up and shut down the machinery for:		
	normal ope	ration	
	emergency		
3.2	explain checks t machinery	to make to ensure effective operation of the	
3.3	explain where t of machinery	o obtain information on the setting and operation	
3.4	explain the company procedure for obtaining authorisation to		
	begin production and why it is important to follow the procedure		
3.5	explain when, how and what to monitor to ensure the quality of the output		
3.6	explain the company procedure for the disposal of waste		
3.7	define the possible causes of faults which can result in, for		
	example:		
	\square sections no	t gathered in the correct order	
	sections no	t inserted in the correct order	
	sections fai	ling to feed and separate	
	\Box sections fee	eding unevenly	
	sections tea	aring	
	sections ma	arking	
3.8	make adjustme	ons that can be overcome by adjustments, how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments	
3.9	-	ms that can occur when operating machinery that olved by adjustment and the company procedure them.	

Unit 241 Set and run multiple hopper feeders

Supporting information

Guidance

AC3.2 – Candidates must explain at least **three** checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 - Candidates must describe at least **three** situations.

Unit 244 Set and run laminating equipment

UAN:	Y/601/9411
Level:	Level 2
Credit value:	4
GLH:	25
Relationship to NOS:	This unit is linked to Proskills NOS Unit 407
Endorsement by a sec or regulatory body:	tor This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and run laminating equipment. There is also the need to have knowledge of adjustments and problem solving when operating this type of equipment
Learning outcome	The learner will:
	The learner win:
1. be able to set lami	
1. be able to set lami	
be able to set lami Assessment criteria The learner can:	
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and chec	nating equipment
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and chec 1.2 identify and obtain	nating equipment
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and chec 1.2 identify and obtain	nating equipment ok the job specification tain the materials required for the job king environment is safe for production
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obtain 1.3 ensure the work 1.4 set up the lamin	nating equipment ok the job specification tain the materials required for the job king environment is safe for production
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and chect 1.2 identify and obt 1.3 ensure the worl 1.4 set up the lamin laminating	nating equipment ok the job specification cain the materials required for the job king environment is safe for production nator, so that:
1. be able to set lami Assessment criteria The learner can: 1.1 obtain and chect 1.2 identify and obt 1.3 ensure the word 1.4 set up the lamin laminating laminating bubbles	nating equipment The control of the policy of the production pator, so that: The control of the product of the prod

Lear	ning outcome	The learner will:	
2. be able to run laminating equipment			
Asse	ssment criteria		
The l	learner can:		
2.1	operate the machinery at the required production speed and in accordance with company safety guidelines		
2.2	keep up the supply of materials throughout the run		
2.3	monitor the output to ensure the job specification and company quality standards are met		
2.4	record producti requirements	on information in accordance with company	

quality standard prior to full production.

- 2.5 follow the company procedures for the removal of waste
- 2.6 stack or pack finished work in accordance with company approved method.

Learning outcome		The learner will:	
3. k	3. know how to set and run laminating equipment		
Asse	Assessment criteria		
The	The learner can:		
3.1	explain how to	start up and shut down the machinery for:	
	normal ope	ration	
	emergency		
3.2	=	to make to ensure effective operation of the	
2.2	machinery		
3.3	explain where t	o obtain information on the setting and operation	
3.4		pany procedure for obtaining authorisation to	
	begin production and why it is important to follow the procedure		
3.5	•	ow and what to monitor to ensure the quality of	
2.6		3 examples of things to monitor	
3.6	r r r r r r r r r r r r r r r r r r r		
3.7	example:	ble causes of faults which can result in, for	
	□ bubbles		
	□ creases		
	□ material no	t fed square	
	□ de laminati	on	
3.8	make adjustme	ons that can be overcome by adjustments, how to nts to the settings to meet the job specifications are the machine is safe for use after adjustments e	
3.9		ms that can occur when operating machinery that olved by adjustment and the company procedure them.	

Unit 244 Set and run laminating equipment

Supporting information

Guidance

 $\mbox{AC3.2}$ – Candidates must explain at least \mbox{three} checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least \mbox{three} examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

AC3.8 – Candidates must describe at least **three** situations.

Unit 245 Set and run slitting and re-reeling equipment - adhesive label production

UAN:			R/601/9410
Level:			Level 2
Credit	value:		3
GLH:			19
Relati	onship to NOS:		This unit is linked to Proskills NOS Unit408
	sement by a sec ulatory body:	tor	This unit is endorsed by Proskills
Aim:			The aim of this unit is to provide the learner with the knowledge and skills to be able to set up and run slitting and re-reeling equipment. There is also the need to have knowledge of adjustments and problem solving when operating this type of equipment.
Learn	Learning outcome The learner will:		
be able to set slitting and re-reeling equipment			nd re-reeling equipment
Assessment criteria			
The le	arner can:		
1.1	obtain and chec	k the	e job specification
	identify and obt	ain t	he materials required for the job
	1.3 ensure the working en		environment is safe for production
1.4	-	_	d re-reeling equipment, so that, for example:
	_		without any burrs
			ed from final reels
	-		ced of the required length, meterage, quantity
□ reels are square			
□ production time			
1	-		eets the job specifications and company or to full production.

Lear	ning outcome	The learner will:	
2. b	2. be able to run slitting and re-reeling equipment		
Asse	Assessment criteria		
The	The learner can:		
2.1	-	chinery at the required production speed and in company guidelines	
2.2	keep up the sup	ply of materials throughout the run	

2.3 monitor the output to ensure the job specification and company quality standards are met
2.4 record production information in accordance with company requirements
2.5 follow the company procedures for the removal of waste
2.6 stack or pack finished work in accordance with company approved method.

Learning outcome		The learner will:			
	3. know how to set and run slitting and re-reeling equipment in - adhesive label production				
Asse	ssment criteria				
The	learner can:				
3.1	explain how to	start up and shut down the machinery for:			
	normal ope	ration			
	emergency	situations			
3.2		to make to ensure effective operation of the			
	machinery				
3.3	explain where to obtain information on the setting and operation of machinery				
3.4	explain the company procedure for obtaining authorisation to begin production and why it is important to follow the procedure				
3.5	explain when, h the output	ow and what to monitor to ensure the quality of			
3.6	explain the com	pany procedure for the disposal of waste			
3.7	define the possi	ble causes of faults which can result in, for			
	example:				
		wrong length			
	□ reels out of	square to the core			
	□ inaccurate	slitting.			

Unit 245 Set and run slitting and re-reeling equipment - adhesive label production

Supporting information

Guidance

AC3.2 – Candidates must explain at least **three** checks to make to ensure effective operation of machinery.

AC3.5 – Candidates must give at least **three** examples of things to monitor

AC3.6 – Candidates must explain company disposal procedures for at least **two** types of waste.

Unit 301 Promote and maintain health and safety in a print related working environment

UAN:	L/601/9390
Level:	Level 3
Credit value:	4
GLH:	17
Relationship to NOS:	This unit is linked to Proskills NOS Unit AG2.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to work safely in the print related environment, to be able to carry out the correct actions should an accident or emergency occur and to promote and develop safe working practices. The learner will also need to know how to monitor the Health and Safety of others. Finally the learner is required to show awareness of associated problems that can occur and possible solutions.

Lea	rning outcome	The learner will:		
1.	1. know which acts, regulations and guidelines apply to the print related working environment			
Ass	Assessment criteria			
The	The learner can:			
1.1	state which acts related working	s, regulations and guidelines apply to the print g environment		
1.2	-	ese acts, regulations and guidelines apply to the		

Learning outcome		The learner will:	
2. know how to monitor and implement changes in health and safety acts, regulations and guidelines		1	
As	Assessment criteria		
Th	The learner can:		
2.1 explain how to monitor changes in health and safety acts, regulations and guidelines, to include:		9	
	accessing H	SE information	
	receiving tr	aining updates	

- 2.2 explain how to introduce and implement changes
- 2.3 explain how to monitor the implementation of changes in Health and Safety to the working environment.

Learning outcome The learner will:

3. know how to carry out a formal assessment of hazards and risks in the print related working environment and the types of risk or hazards that exist

Assessment criteria

The learner can:

- 3.1 describe the steps in carrying out a formal risk assessment
- 3.2 explain how to record the findings of the risk assessment and why recording is important
- 3.3 explain who should be made aware of the findings and how
- 3.4 explain why it is important to inform the relevant people of the findings
- 3.5 describe examples of risks or hazards that can occur in their working environment.

Learning outcome The learner will:

4. be able to identify hazards and assess risks in the print related working environment

Assessment criteria

The learner can:

- 4.1 carry out a risk assessment of the print related working environment
- 4.2 report the findings of the risk assessment in accordance with company procedures and legislation.

Learning outcome The learner will:

5. know how to promote safe working practices

Assessment criteria

The learner can:

- 5.1 give examples of information that promote safe working practices related to the print related working environment
- 5.2 explain how each of the examples given promote safe working practices.

Learning outcome The learner will:

6. be able to promote safe working practices

Assessment criteria

The learner can:

6.1 disseminate information on safe working practices.

Learning outcome The learner will:

7. be able to adopt a safe method of work

Assessment criteria

The learner can:

- 7.1 plan and organise a safe method of work.
- 7.2 select and use personal protective equipment in accordance with company guidelines and legislation
- 7.3 select and use print related materials in accordance with company guidelines and legislation.

Learning outcome

The learner will:

8. know how to ensure there is no unauthorised or unsafe access to the working areas

Assessment criteria

The learner can:

- 8.1 explain how to establish if a person is authorised to enter the work area
- 8.2 explain how to ensure that authorised people entering the work area are kept safe.

Learning outcome

The learner will:

9. know how to monitor colleagues to ensure they comply with health and safety requirements

Assessment criteria

The learner can:

9.1 explain how to monitor colleagues to ensure they comply with health and safety requirements.

Learning outcome

The learner will:

10. know what to do in the event of accidents or emergencies

Assessment criteria

The learner can:

- 10.1 describe the company procedures to follow in the case of an accident
- 10.2 describe the company procedures to follow in the case of an emergency
- 10.3 describe the procedure for evacuating workers and visitors
- 10.4 describe the procedure for reporting and recording accidents and emergencies.

Learning outcome	The learner will:	
11. understand the problems that can occur with promoting and maintaining Health and Safety within the print related working environment and the potential solutions		
Assessment criteria		
The learner can:		
11.1 explain problems that can arise when promoting Health and Safety, which relate to the following:		
□ Problem wi	ith communicating information to others	
□ Problem wi	ith introducing changes	
	ith monitoring colleagues compliance with Health requirements	
<u> </u>	overcome each of the problems that can arise g health and safety.	

Unit 301 Promote and maintain health and safety in a print related working environment

Supporting information

Guidance

AC3.5 – Candidates must describe at least **three** examples of risks or hazards that can occur in their working environment.

AC5.1 & 5.2 – Candidates must explain at least **three** examples of information that promote safe working practices and how they promote this.

AC11.1 – Candidates must explain at least three problems that can arise when promoting health and safety.

AC11.2 – Candidates must explain how to overcome each of the problems identified in AC11.1.

Unit 302 Contribute to improving the effectiveness of the print organisation

UAN:	D/601/9393		
Level:	Level 3		
Credit value:	5		
GLH:	18		
Relationship to NOS:	This unit is linked to Proskills NOS Unit FIS2.		
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.		
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to contribute to the improvement of the organisation through the use of resources, communications and working relationships within the Print working environment.		
Learning outcome	The learner will:		
1. know how to obtain	n and understand the work schedule		
Assessment criteria			
The learner can:			
1.1 explain the Organisational procedure for obtaining the work schedule			
_	1.2 explain what to do if the work schedule is:		
unclear			
□ not achieval	ole.		

Learning outcome		The learner will:		
1	2. know how to ensure that the correct quantities of products and materials and human resources are used			
Asse	Assessment criteria			
The	The learner can:			
2.1	-	ensure that the required quantities of products nd human resources are selected.		

Lear	ning outcome	The learner will:	
3. k	3. know how to minimise wastage of materials		
Asse	essment criteria		
The learner can:			
3.1	list types of mat	terial that can potentially be wasted	
3.2	describe what a materials listed	ctions can be taken to minimise wastage of the	
3.3	explain how surplus materials may be reused.		

Learning outcome		The learner will:		
4. know why it is important to contribute to improving the effectiveness of the organisation				
Ass	Assessment criteria			
The	The learner can:			
4.1	explain reasons the organisation	for contributing to improving the effectiveness of n.		

Learning outcome		The learner will:	
	5. know what information to share with colleagues on own job role and why this is important		
Assessment criteria			
The learner can:			
5.1	give examples o be shared with	f information linked to own job role that needs to colleagues	
5.2	explain why sha	ring information with colleagues is important.	

Learning outcome	The learner will:
6. be able to share information with colleagues	
Assessment criteria	
The learner can:	
6.1 share informati	ion with colleagues using different methods, for
example:	
☐ face to face	conversations
□ company systems	
□ written notes	
□ drawings / sketches	
□ telephone (voice or text)	
□ email	
□ internet.	

The learner will: Learning outcome 7. know how to identify and pass on improvements to work activities Assessment criteria

The learner can:

- explain ways to identify improvements that can be made in work activities
- 7.2 explain how to pass on suggestions for improvements identified in line with organisational policies
- 7.3 explain who to make the suggestions to and why these people need to be made aware.

Lear	ning outcome	The learner will:
	3. know how and why to identify opportunities and needs for self development and how to manage this information	
Asse	essment criteria	
The	learner can:	
8.1	explain ways th print industry c	at a need to update skills and or knowledge of the an be identified
8.2	give examples o related to the pr	of how to check opportunities for self development rint industry
8.3	explain the beneand how it bene	efits of keeping skills and knowledge up to date efits
	\Box the individu	ıal
	□ the organis	ation.

Lea	rning outcome	The learner will:
9.	9. know why it is important to have good relationships with customers	
Assessment criteria		
The	e learner can:	
9.1	explain benefits	of having good relationships with customers.

Unit 302 Contribute to improving the effectiveness of the print organisation

Supporting information

Guidance

- AC3.1 Candidates must list at least **three** types of material that can potentially be wasted.
- AC4.1 Candidates must explain at least **three** reasons for contributing to improving the effectiveness of the organisation.
- AC5.1 Candidates must give at least **three** examples of information linked to their own job role that needs to be shared with colleagues.
- AC7.1 Candidates must explain at least **two** ways to identify improvements that can be made in work activities.
- AC8.1 Candidates' must explain at least **two** ways that a need to update skills or knowledge of the print industry can be identified.
- AC8.2 Candidates must give at least **two** examples of how to check opportunities for self-development.
- AC9.1 Candidates must explain at least **three** benefits of having good relationships with customers.

Unit 303 Plan work to meet production requirements

UAN:	J/502/8501
Level:	Level 3
Credit value:	4
GLH:	16
Relationship to NOS:	This unit is linked to Proskills NOS Unit 120.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to plan and set out the work required, the sequence of work and how to accurately determine the time needed to complete the workload.

Lear	ning outcome	The learner will:
1. be able to interpret production requirements		
Assessment criteria		
The learner can:		
1.1	obtain and chec	k details of jobs to be output
1.2	identify the finis	shed product required by the customer
1.3	identify what th	eir department or area of work is required to
	produce	
1.4	identify the ord	er of tasks required to meet the output.

Lear	ning outcome	The learner will:
2. be able to plan production tasks to meet customer requirements		
Assessment criteria		
The learner can:		
2.1	confirm that the resources needed to complete the tasks are	
	identified for ex	ample: equipment, materials and labour
2.2	realistically esti	mate the time needed to complete each task
2.3	plan work to av	oid unnecessary repetition and re-working.

Learning outcome	The learner will:	
3. know how to plan	work to meet production requirements	
Assessment criteria		
The learner can:		
3.1 state the company procedures for communicating with:		
colleagues		
customers		
	1 3 1	
=	omer material including:	
=	system security and virus protection	
•	time-sensitive or restricted release dates	
	products or print with a high risk of theft	
	to staffing access	
3.3 describe the wo following:	orkplace policy and practice in relation to the	
	standards and procedures	
-	f work carried out in the workplace	
_	g practices existing in the workplace	
	roles within the printing and graphic	
	ations industry and their main purposes	
	ction and copyright	
<u>-</u>	luencing factors when:	
	ne process over another	
□ the choice of	of processes for any particular product	
3.5 explain the respinctuding:	oonsibilities in regards of time and resources	
☐ the differer	nt types of resource, including labour, materials,	
machinery		
	nship between resource usage and profitability	
	ximise productivity	
	nship between productivity and competitiveness	
<u>-</u>	ninistrative procedures, including:	
□ planning		
□ scheduling	and reporting	
	and reporting	
3.7 explain the mai systems, includ	n features of quality assurance and quality controling:	
techniques	for controlling quality	
	for controlling quality in digital artwork, pre-	
= =	printing areas	
=	ards for viewing and assessing colour print	
3.8 explain the fund	ction of a proof in the printing process.	

Unit 304 Maintain digital systems in working order

UAN:	T/502/8526	
Level:	Level 3	
Credit value:	4	
GLH:	16	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 126.	
Endorsement by a This unit is endorsed by Proskills sector or regulatory body:		
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to start-up and shut-down digital systems and to carry out effective and safe working systems. It also includes problem solving and fault identification.	
Learning outcome The learner will:		
be able to start up and close down imaging systems		
Assessment criteria		
The learner can:		
1.1 start up the digital system hardware in accordance with company procedures		
1.2 set up the digital system hardware to meet the job requirements		
	1.3 open the required software application program(s)	
1.4 follow workplace security procedures for the following:		
☐ file security		
□ system security		
□ virus protection		
	t company recommended/appropriate intervals	
_	ted data files in the file storage system in	
	n company procedures	
11		
	Operating Procedures.	

Learning outcome	The learner will:		
2. be able to contribu	2. be able to contribute to the effective operation of digital systems		
Assessment criteria	Assessment criteria		
The learner can:	The learner can:		
2.1 carry out system	n housekeeping activities, for example:		
□ software an	□ software and system checks		
□ hardware c	□ hardware checks		
$\ \square$ organisation of digital filing systems			
□ back-up of stored files			
deletion of unwanted files			
☐ hard-drive maintenance.			

Learning outcome		The learner will:	
3. k	3. know how to maintain digital systems in working order		
Asses	Assessment criteria		
The l	earner can:		
3.1	describe how to ensure the safe handling of customer material as required by the company		
3.2	state the require company for:	ements for security and storage within the	
	computer s	ystem security and virus protection	
		ns of archiving digital and conventional artwork plicy and procedures regarding internet access	
	□ company po	olicy on Confidential Information	
3.3	describe the ope	eration of equipment for the following:	
	☐ the assemb	ly and set-up of digital systems	
	□ the operation	on of digital systems	
3.4	describe how Digital Imaging is affected by different file formats for digital images, the differences between them and the reasons for using them		
3.5	state how to deal with digital files in relation to file management		
3.6	explain their responsibility towards environmental considerations for the following:		
	 the legal requirements for the classification, storage, carriage and disposal of waste 		
	environmental management		
	 control of pollution, including disposal of computer equipment and consumables 		
3.7	give examples of faults than can occur in maintaining digital systems, what causes them and how to correct them		
3.8	explain the com	pany procedures on reporting faults to include:	
	\square faults they l	nave responsibility to correct	
		n fall outside their area of ity/capability and the importance of following .	

Unit 304 Maintain digital systems in working order

Supporting information

Guidance

AC3.7 – Candidates must give at least **two** examples of faults that can occur, their causes and how to correct them.

Unit 305 Understanding the print industry

UAN:	L/601/9406
Level:	Level 3
Credit value:	4
GLH:	22
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and understanding of the Print Industry, the main processes, products and equipment and also understanding of the importance of confidentiality within the Industry

Lear	ning outcome	The learner will:	
1. k	1. know the printing processes used within the print industry		
Asse	Assessment criteria		
The	The learner can:		
1.1	state the main print processes used within the print industry		
1.2	explain the basic principles of each process		
1.3	state a product that can be produced by each process		
1.4	state stages of production workflow in print.		

Learning outcome		The learner will:	
2.	2. understand the factors that influence the choice of printing process		
Assessment criteria			
The learner can:			
2.1	2.1 explain the advantages of each printing process		
2.2	2.2 explain the disadvantages of each printing process.		

Lear	ning outcome	The learner will:
3. l	3. know the types of equipment used within the print industry	
Asse	Assessment criteria	
The learner can:		
3.1	3.1 list pieces of equipment/machinery used within the print production process	
3.2	explain the purpose of each piece of equipment/machinery	
3.3	explain the difference between in line and off line operations.	

Learning outcome	The learner will:	
Learning outcome	i ne learner will:	

4. recognise and understand the need for confidentiality within the print industry

Assessment criteria

The learner can:

- 4.1 list types of information concerning a print job that may need to be kept confidential
- 4.2 explain the reasons information should be kept confidential.

Unit 305 Understanding the print industry Supporting information

Guidance

- AC1.1 Candidates must state at least **five** main printing processes.
- AC1.4 Candidates must state **three** stages of production of workflow in print.
- AC3.1 Candidates must list at least **three** pieces of equipment/machinery used within the print production process.
- AC4.1 Candidates must list and least **two** types of information concerning a print job that may need to be confidential.

Unit 306 Maintain print equipment in working order

UAN: K/601/9395	
Level:	Level 3
Credit value:	6
GLH: 23	
Relationship to NOS: This unit is linked to Proskills NOS Unit 00	
Endorsement by a This unit is endorsed by Proskills sector or regulatory body:	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to maintain equipment in working order, and includes identifying and correcting faults within their area of responsibility.
Learning outcome	The learner will:
1. know how to mair	ntain equipment in working order
Assessment criteria	
The learner can:	
lubrication and roles and remaintenance the choice at the maintenance when and hemaintenance 1.2 describe how the equipment: tools materials production lack of skills	and use of suitable cleaning agents and lubricants nance plans for equipment now to start up and shut down equipment for the early cleaning the following could affect the maintenance of the requirement is or training
	nformation
	s that are likely to require periodic replacement
=	ay be required at short notice
1.5 explain the comparts and consu	pany policies and processes on the availability of imables.

Learning outcome The learner will:

2. be able to maintain equipment in working order

Assessment criteria

The learner can:

- 2.1 ensure that it is safe to start cleaning activities
- 2.2 obtain the required materials and equipment needed for cleaning
- 2.3 ensure that cleaning materials and equipment are used in ways which minimise waste and pollution
- 2.4 ensure that used cleaning agents and waste materials are disposed of in accordance with company procedures
- 2.5 check that machines are safe to operate, free from waste and cleaning materials prior to start up.

Learning outcome The learner will:

3. know how to identify, correct and record machine faults

Assessment criteria

The learner can:

- 3.1 describe faults that should be able to be corrected without summoning external assistance
- 3.2 explain how to obtain and analyse information about the machine faults to identify their likely cause
- 3.3 explain how to correct the faults identified including the tools, equipment and PPE required
- 3.4 explain the company procedures on reporting faults which fall outside their area of responsibility/capability and the importance of following procedures
- 3.5 explain how to assess the estimated time it will take to rectify faults and the company procedures on informing the relevant people
- 3.6 explain how and why to record the details of machine faults and production down-time following company procedures.

Learning outcome The learner will:

4. be able to implement a programme of lubrication and maintenance

Assessment criteria

The learner can:

- 4.1 identify the lubrication points on the machine and the manufacturer's recommended types of lubricant and lubrication intervals
- 4.2 ensure that the maintenance plan is implemented and kept up to date
- 4.3 ensure that filters such as oil, air and water, are cleaned and/or replaced in line with needs or maintenance schedules
- 4.4 examine components for defects or excessive wear.

Unit 306 Maintain print equipment in working order

Supporting information

Guidance

AC3.1 – Candidates must describe at least **three** faults that should be able to be corrected without summoning external assistance.

Unit 307 Manage printing machines

UAN:	D/601/9426
Level:	Level 3
Credit value:	8
GLH:	23
Relationship to NOS:	This unit is linked to Proskills NOS Units 267, 268 & 269.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage the operation and quality of output for printing machines such as sheetfed multi-unit lithographic printing machines, wide-web printing machinery and narrow-web printing machinery Candidates will need to be aware of the range of quality checks used in the organisation, and also the recording of relevant information. Candidates must also demonstrate how to give instructions on processes to colleagues.

Lear	ning outcome	The learner will:	
1. b	1. be able to make-ready printing machines		
Asse	Assessment criteria		
The	learner can:		
1.1	1 obtain all the information required for the job		
1.2	identify and obtain materials of the required type, quantity and		
	quality to meet the job requirements		
1.3	identify any further production requirements		
1.4	check that the machine and the work area are safe and ready for		
	production		
1.5	-	eets the company's quality standard, making	
	appropriate adjustments, if the standard is not met		
1.6	obtain an appro	ved sample of the product being produced.	

Lear	ning outcome	The learner will:
2. b	2. be able to manage the output from print production machines	
Assessment criteria		
The learner can:		
2.1	2.1 run and monitor production machines at the optimum speed,	

- with minimum downtime and to the required quality standard
 2.2 carry out checks in line with company procedures that the output
 matches the job requirements.
- 2.3 run the required number of good copies, keeping spoiled material to a minimum
- 2.4 follow the company procedures for the removal of waste
- 2.5 record the production and quality assurance details following company procedures
- 2.6 ensure the output is prepared for the next stage in the process, in accordance with company procedures.

Learning outcome		The learner will:	
3. k	3. know how to manage printing machines		
Assessment criteria			
The	learner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain their re	sponsibilities in regards of time and resources:	
	the differer machinery	at types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	rimise productivity	
3.3	-	ms that can occur when managing printing probable causes and possible solutions including ould:	
	\square affect the q	uality of the image	
		rate of output	
	☐ affect Healt	h and Safety	
3.4	explain how to identify maintenance schedules and needs and how to liaise with relevant colleagues to ensure output is maintained to the required standard and rate		
3.5	<u>-</u>		
3.6	3.6 identify machine parts that may require replacing and explain the company policy on the availability and replacement of these		
3.7	explain the com	pany administrative procedures, for example:	
	\square scheduling		
	recording a	nd reporting	
	product lab	pelling	
	\square reporting fa	aults and production downtime	
3.8		hods available for giving clear instructions to rding their responsibility in the operation of the nachinery	
3.9	explain the checunderstood and	cks to make to ensure the instructions have been I followed.	

Learning outcome		The learner will:	
4.	know how to monitor the quality of output from print production machines		
Ass	essment criteria		
The	e learner can:		
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	frequency		
	type of chec	cks	
	\square viewing cor	nditions	
		crol aids/devices	
	•	tolerances/variation	
4.2	describe the pu	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4	describe the quality control aids located on the printed copy to aid in the monitoring of production.		
4.5	describe methods used to monitor the standard of output achieved		
4.6	explain why it is important to clearly identify both good and bad copy on completion of the run		
4.7	describe the cor	npany procedures for the removal of waste	
4.8	explain the reason for maintaining performance records, for		
	example:		
	machine ma	ake-ready	
	\Box running spe		
	\square production		
	downtime i	n production.	

The learner will: Learning outcome 5. be able to monitor the quality of product throughout the production process Assessment criteria

The learner can:

- operate the machine at the required production speeds 5.1 maintaining quality of output
- use recognised quality control methods to check output against 5.2 the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for completing production and quality assurance records.

Unit 307 Manage printing machines Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur.

AC3.6 – Candidates must identify at least **three** machine parts that may require replacing.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 308 Manage colour reproduction in digital pre-press

UAN:	J/502/8532
Level:	Level 3
Credit value:	4
GLH:	15
Relationship to NOS:	This unit is linked to Proskills NOS Unit 122.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to ensure that colours are properly represented to the customer from the outset and that the colours when printed are predictable and meets the customer's expectations or are at least within acceptable commercial parameters.

Lear	ning outcome	The learner will:	
1. b	1. be able to manage the calibration of digital prepress equipment		
Asse	ssment criteria		
The	learner can:		
1.1	calibrate a display monitor in the workflow to produce accurate colour reproduction		
1.2	calibrate digital output devices, eg image setter/CTP setter, digital press, proofer(s)		
1.3	store device profiles created during calibration		
1.4	maintain records of calibration checks as required by the company.		

Lear	ning outcome	The learner will:
2. Ł	e able to configu	re pre-press software within the workflow
Asse	ssment criteria	
The	learner can:	
2.1	identify which s management fea	oftware applications in the workflow have colour atures
2.2	identify what ea	ach colour management feature in each software et to do
2.3	alter the colour	software colour management features that may values in digital images, either through the use of dot gain compensation/simulation, colour mode

- conversion or total ink content calculations, are configured to meet job requirements
- 2.4 establish what the typical dot gain is on printing machines and configure the application software or workflow appropriately to make allowance for dot gain
- 2.5 save software settings once configuration is complete
- 2.6 Inform colleagues who use the workflow are aware of how it is configured and where in the workflow colour mode changes and colour profiles are used
- 2.7 use appropriate reference material to check that the hardware and software colour management configuration produces reliable colour reproduction on press and/or from any 'high resolution' proofing device(s).

Learr	ning outcome	The learner will:	
3. be able to use colour profiles correctly			
Asses	sment criteria		
The l	earner can:		
3.1	identify source workflow	profiles and destination profiles stored within the	
3.2	select the required destination profiles for outputting to specific devices		
3.3	ensure that source profiles embedded in image files are appropriate to meet job requirements		
3.4		dded source profile is not correct or is missing, opriate person of the consequences	
3.5	assign a new profile		
3.6	assign the requi	red profile to a file after conversion to a new	
3.7		application software in the workflow are set to use ination profiles appropriate to job requirements.	

Learning outcome		The learner will:		
4.	know how to man	age colour reproduction in digital pre-press		
Ass	Assessment criteria			
The	e learner can:			
4.1	-	ements for security and storage within the nputer system security and virus protection		
4.2	state company p	procedures for communicating with:		
	colleagues			
	customers			
	suppliers			
4.3	describe workp	ace policy and practice in relation to the		
	following:			
	workplace of	objectives, priorities, standards and procedures		
	☐ the range of	work carried out in the workplace		
4.4	describe the ope	eration of equipment for the following:		
	\Box the set-up of	f digital imaging equipment and software		
	☐ the operation	on of digital imaging equipment and software		

4.5	5 describe how Digital Imaging is affected by:		
	 colour theory, eg: additive and subtractive systems such as RGB and CMYK; colour gamuts 		
	 colour management: how to set up, maintain and use image profiles 		
	 the range of methods, equipment, material and software appropriate to the imaging requirements 		
	☐ the assembly and set-up of image editing and output systems		
	☐ the operation of image editing and output systems		
4.6	state how to deal with digital files in relation to the following: dealing with embedded information		
	☐ file management		
	file types and which files formats can carry embedded profiles		
4.7	explain the company administrative procedures, for example:		
	□ scheduling		
	□ recording and reporting		
	□ product labelling		
	 reporting faults and production downtime 		
4.8	explain the main features of quality assurance and quality control systems, including:		
	 techniques for controlling quality, including inspection, testing, sampling, use of input and output controls 		
	□ equipment for controlling quality in pre-press		
4.9	describe the principal activities involved with machine cleaning,		
	lubrication and maintenance in relation to equipment worked on		
4.10	explain the principal types of proof and their role in the printing process.		

Unit 309 Produce approved colour proofs from digital artwork

UAN:	L/502/8533	
Level:	Level 3	
Credit value:	4	
GLH:	16	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 128.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to produce; assess and correct hard-copy proofs produced from digital artwork that meet the criteria for a 'contract-quality' proof.	
Learning outcome	The learner will:	
1. be able to produce	e digital proofs for print	
Assessment criteria		
The learner can: 1.1 confirm what kind of proof is required 1.2 locate and retrieve the files required for the proof 1.3 ensure the files are in the required format for proof output 1.4 include on the proof quality control aids 1.5 make sure the proofing device is calibrated, in serviceable condition and has the required paper and consumables loaded 1.6 make sure any colour profiles required to meet the job specification are selected for the proof, including: any profiles required related to the proofing paper any profiles relating to the printing machine or standard 'dot gain' curves 1.7 output the proof at the required size and resolution 1.8 keep records of the work completed in accordance with company procedures.		
Learning outcome	The learner will:	
2. be able to assess proofs against required specifications		
Assessment criteria		
The learner can:		
	of and identify any defects, for example:	
□ physical de	fects in the making of the proof	

	□ colour irregularities
	☐ font or typographical problems
	□ image resolution
	□ trapping and knockout of colours
	□ size and orientation of pages or images
2.2	carry out quality control checks on the proof to ensure required standards are met.

Lear	ning outcome	The learner will:	
3. b	3. be able to modify digital artwork to meet specifications		
Asse	ssment criteria		
The	learner can:		
3.1	identify amend	ments required to proofs	
3.2	amend the prod	of to meet customer requirements	
3.3	make sure the amendments are completed by the deadline set		
3.4	re-proof the job, as required, until a final proof is approved by the customer or as set out in their company's procedures		
3.5	reference and archive the approved digital file and any intermediate files, in accordance with their company's procedures		
3.6	procedures and	roved proof in accordance with company make sure that any other unapproved proofs are lt with in accordance with their company's	

Learr	ning outcome	The learner will:	
4. k	4. know how to produce approved proofs from digital artwork		
Asses	ssment criteria		
The l	earner can:		
4.1	explain how the	law affects printing in relation to:	
	copyright a	nd ownership of images	
	\square obscenity		
	forgery		
4.2	give an example	of an ethical Issue relevant in printing	
4.3	-	ements for security and storage within the	
	company for:		
		ns of archiving digital and conventional proofs	
	 retaining hard copy proofs 		
4.4	1 31		
	customers		
4.5		rkplace policy and practice in relation to the	
	following: ☐ standards		
1.0	□ procedures	avertion of agricum ant for the following.	
4.6	-	eration of equipment for the following:	
	-	f proofing equipment and software	
4.7	=	on of proofing equipment and software	
4./			
4.7	describe how D	gital Imaging is affected by: ry, eg: additive and subtractive systems such as	

	RGB and CMYK; colour gamuts
	☐ the relationship between image size, file size and resolution
	☐ file formats for digital images - the differences between them and the reasons for using them
	 colour management: how to set up, maintain and use image profiles
4.8	state how to deal with digital files in relation to the following:
	☐ file conversion techniques
	☐ file compression and decompression systems
	☐ file management
4.9	describe the causes and treatment of common faults in proof
	output
4.10	explain the administrative procedures, including:
	recording and reporting
	□ product labelling
4.11	explain the main features of quality assurance and quality control
	systems, including:
	□ techniques for controlling quality
	 equipment for controlling quality in printing
	☐ light standards for viewing and assessing colour printing
4.12	describe how the types and characteristics of paper, board and
	other commonly used substrates affect the visual appearance of a proof.
4.13	explain the principal types of proof and their role in the printing process.
	process.

Unit 310 Preflight digital files

UAN:	R/502/8534
Level:	Level 3
Credit value:	4
GLH:	10
Relationship to NOS:	This unit is linked to Proskills NOS Unit 130.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.
Aim:	This unit covers the checking or 'preflighting' of digital artwork files supplied for production-scale printing. It includes knowledge of problems and possible solutions.

Learning outcome		The learner will:	
1. t	1. be able to preflight digital artwork files		
Asse	ssment criteria		
The	learner can:		
1.1 identify the digital artwork files that are required to be preflight checked		tal artwork files that are required to be preflight	
1.2	select the preflight software to be used for checking the digital artwork and select a profile, rules or values, against which the artwork will be compared		
1.3	1.3 preflight the artwork file(s) using the electronic preflight software		
1.4	-	light report and save it, if required, in a suitable lectronic or paper based.	

 2. be able to interpret and report the results of preflighting digital artwork files Assessment criteria The learner can: 2.1 interpret the results of electronic preflighting and determine which issues reported are significant and which are not; giving reasons 2.2 identify whether the artwork file should be allowed to proceed to the next stage of production in accordance with company guidelines 2.3 decide the appropriate course of action to be taken for examples. forward to next stage of production 	Learning outcome		The learner will:	
The learner can: 2.1 interpret the results of electronic preflighting and determine which issues reported are significant and which are not; giving reasons 2.2 identify whether the artwork file should be allowed to proceed to the next stage of production in accordance with company guidelines 2.3 decide the appropriate course of action to be taken for examples.				
 2.1 interpret the results of electronic preflighting and determine which issues reported are significant and which are not; giving reasons 2.2 identify whether the artwork file should be allowed to proceed to the next stage of production in accordance with company guidelines 2.3 decide the appropriate course of action to be taken for examples. 	Assess	ment criteria		
which issues reported are significant and which are not; giving reasons 2.2 identify whether the artwork file should be allowed to proceed to the next stage of production in accordance with company guidelines 2.3 decide the appropriate course of action to be taken for examples.	The le	arner can:		
the next stage of production in accordance with company guidelines 2.3 decide the appropriate course of action to be taken for examples.	,	which issues re	1 0 0	
	1	the next stage o	*	
	2.3		1	

	□ amend content
	□ return file to originator
	□ seek advice
2.4	maintain any quality assurance or other records required by the organisation.

Learning outcome		The learner will:		
3. kn	3. know how to preflight digital files			
Assess	Assessment criteria			
The le	The learner can:			
3.1	explain the purp	ose of preflight checks		
3.2	outline the proc	edures to follow when:		
	the standar	d has been met		
	the standar	d cannot be met without further changes		
		ensure the safe handling of customer material as		
	required by the			
3.4	describe how to	deal with digital files in relation to the following:		
	☐ file convers	ion techniques		
	\square missing fon	ts and images		
	□ knockout v	overprinting		
	☐ RGB v CMYI	K and other colour models		
		encountered in preflighting, their causes and		
	possible solutio			
3.6	-	rding and reporting procedures, including:		
	\square who to info	rm		
		ion required		
		n features of quality assurance and quality control		
	systems.			

Unit 310 Preflight digital files Supporting information

Guidance

AC3.5 – Candidates must describe at least **three** faults encountered in preflighting, their causes and possible solutions.

Unit 311 Manage colour digital printing machines

UAN:	J/502/8529	
Level:	Level 3	
Credit value:	6	
GLH:	22	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 247.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to configure, operate, control and carry out maintenance of 'production-scale' digital colour printing machines.	
Learning outcome	The learner will:	
1. be able to prepare of	digital colour printing machines for print	
Assessment criteria		
The learner can:		
1.1 check that the digital colour printer is in serviceable condition and ready for production and that colour calibration and/or other periodic checks are up to date		
1.2 obtain and check	the job specification	
_	· •	
1.4 determine the im	position requirements for the job	
1.5 determine the post-printing requirements for the job		
1.6 ensure the printe meet the job spec	er software is set to handle any colour profiles to cification	
1.7 set up the print parameters for the printer and job requirements, including any colour settings		
1.8 download or prir machine so that:	1.8 download or print the digital job file(s) to the digital printing	
□ the print out	put meets the job specification	
	complete, colour accurate, free from on other faults, and in register	
	onts have been used	
□ the correct s	ubstrates have been used	
any duplexin	g or finishing options are correct	
☐ imposition, s	caling and orientation are correct	
□ the output sa	ntisfies the required quality standard.	

Learning outcome The learner will: 2. be able to control the operation of digital colour printing machines Assessment criteria The learner can: run the digital printing machine at the required speed and in accordance with company guidelines 2.2 keep up the supply of materials and consumables throughout the 2.3 check that quality standards and job specifications are met, including the quality of the image, colour consistency and finishing accuracy

2.4	record production and quality assurance details in accordance
	with company guidelines

- 2.5 follow the company procedure for the removal of waste
- 2.6 stack work using the company approved method.

job specification.

Learr	ning outcome	The learner will:	
	3. be able to maintain digital colour printing machines in serviceable condition		
Asses	ssment criteria		
The l	earner can:		
3.1		manufacturer's instructions for the cleaning and the digital printer are followed and completed at ed intervals	
3.2	undertaken at the required by a co	our calibration and/or colour profiling is the required intervals and that any colour profiles blour Management System are installed in line rer's and company guidelines	
3.3	ensure that the	digital workflow is configured and operated so	

that colour documents and images are reproduced to meet the

Learning outcome		The learner will:		
4. k	know how to manage digital colour printing machines			
Asses	Assessment criteria			
The l	The learner can:			
4.1	state the compa	ny guidelines for security and storage for:		
	computer s	stem security and virus protection		
	print with t	me-sensitive or restricted release dates		
	□ high value p	roducts or print with a high risk of theft		
	secure mea	ns of archiving digital and conventional artwork		
4.2	describe the ope	eration of equipment for the following:		
	the set-up of software	f digital communications equipment and		
	the operationsoftware	on of digital communications equipment and		
4.3	state how to dea	ll with digital files in relation to the following:		
	\square file convers	ion techniques		

	☐ file compression and decompression techniques		
	☐ the transmission of digital files		
	☐ file management		
4.4	explain the administrative procedures, including:		
	□ planning		
	scheduling		
	recording and reporting		
	□ product labelling		
4.5	explain the purpose of 'preflight' with regards to digital files and how this is done		
4.6	explain the company procedures where incorrect colour profiles are embedded		
4.7	describe the range of proofs in use and their role in the printing process and the limiting factors		
4.8	explain the types of adjustments that can be made to meet the job		
	specification and the company quality standards for the		
	following:		
	□ machine settings		
	□ print download settings		
4.9	describe faults that can occur that could affect:		
	\square quality of image		
	□ shortfall in output.		
Learr	ning outcome The learner will:		
5. k	now how to monitor the quality of output from the digital printing		
	now how to monitor the quality of output from the digital printing nachines		
m			
Asses	ssment criteria		
Asses The l	earner can:		
Asses	ssment criteria		
Asses The l	earner can: explain the company procedures for monitoring the quality of output. To include:		
Asses The l	earner can: explain the company procedures for monitoring the quality of		
Asses The l	earner can: explain the company procedures for monitoring the quality of output. To include: frequency		
Asses The l	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks		
Asses The l	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions		
Asses The l	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices		
Asses The l 5.1	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation		
Asses The l 5.1	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy		
Asses The l 5.1	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during		
7 Asses The l 5.1 5.2 5.3	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to		
5.2 5.3 5.4	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to aid in the monitoring of production describe a range of methods used to monitor the standard of		
5.1 5.2 5.3 5.4 5.5	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to aid in the monitoring of production describe a range of methods used to monitor the standard of output achieved explain why it is important to clearly identify both good and bad		
5.2 5.3 5.4 5.5	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to aid in the monitoring of production describe a range of methods used to monitor the standard of output achieved explain why it is important to clearly identify both good and bad copy on completion of the run describe the company procedures for the removal of waste explain the reason for maintaining performance records, for		
5.2 5.3 5.4 5.5 5.6	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to aid in the monitoring of production describe a range of methods used to monitor the standard of output achieved explain why it is important to clearly identify both good and bad copy on completion of the run describe the company procedures for the removal of waste explain the reason for maintaining performance records, for example:		
5.2 5.3 5.4 5.5 5.6	earner can: explain the company procedures for monitoring the quality of output. To include: frequency type of checks viewing conditions quality control aids/devices acceptable tolerances/Variation explain the purpose of achieving an approved copy identify the items on the product to be monitored during production output describe the quality control aids located on the printed copy to aid in the monitoring of production describe a range of methods used to monitor the standard of output achieved explain why it is important to clearly identify both good and bad copy on completion of the run describe the company procedures for the removal of waste explain the reason for maintaining performance records, for		

□ downtime in production.

Learning outcome The learner will:

6. be able to monitor the quality of product throughout the production process

Assessment criteria

The learner can:

- 6.1 operate the machine at the required production speeds maintaining quality of output
- 6.2 use recognised quality control methods to check output against the approved sample
- 6.3 produce the required number of good copies to meet customer/company requirements
- 6.4 identify the product which has met the approved standards
- 6.5 follow company and legal procedures to identify and remove waste
- 6.6 follow company procedures for completing production and quality assurance records.

Unit 311 Manage colour digital printing machines

Supporting information

Guidance

AC4.9 – Candidates must describe at least **three** faults that could occur.

Unit 312 Control the use of variable data with digital printing machines

UAN:		F/502/8531
Level:		Level 3
Credit value:		4
GLH:		16
Relations	hip to NOS:	This unit is linked to Proskills NOS Unit 248.
Endorsement by a sector or regulatory body:		This unit is endorsed by Proskills
Aim:		The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to prepare and produce variable data for digital print and control the appropriate machinery. It also includes dealing with faults and problems.
Learning	outcome	The learner will:
1. be ab	le to prepare	variable data for use in digital printing
Assessme	ent criteria	
The learr	ner can:	
1.1 confirm that the company has complied with the requirements of the legislation covering data protection if processing personal data		
leg	2 confirm that the variable data file(s) supplied complies with the legislation covering data protection if it contains personal information	
1.3 che	eck that the f	ile(s) supplied is in a format that can be used
1.4 ens	ensure all necessary operations are carried out, for example:	
	data verific	
	-	record checks
1.5 ide	-	ng operations ds required for use in printing and relate them to
	primary dod	

Learning outcome		The learner will:	
	e able to produce ata	personalised printed products using variable	
Asses	Assessment criteria		
The l	earner can:		
2.1	file are merged	rameters so that the primary file and variable data as required, or so that the pre-merged output file with the job specification	
2.2	is printed in the	e required speed, ensuring that the variable data required place on each page and the data ntained from page to page in accordance with job	
2.3	necessary inform	printed job is packed and labelled to identify all nation, for example: se of data output	
2.4	=	y and/or other documentation in accordance with	
2.5	*	sonal data is protected from misuse and is dealt nee with the legislation covering data protection f the job.	

Learning outcome		The learner will:
3.	know how to cont machines	rol the use of variable data with digital printing
Ass	sessment criteria	
Th	e learner can:	
3.1	explain their un relation to:	derstanding of the law as it affects printing in
	□ data protec	tion
	the Printers	s Imprint
3.2	state the require company for:	ements for security and storage within their
	\Box computer s	ystem security and virus protection
	-	ime-sensitive or restricted release dates
		ns of archiving digital and conventional artwork
3.3	explain the tern design to includ	ninology used within typography, artwork and e:
	\Box fonts	
	\square proof	
	□ layout	
	specificatio	n
	imposition	
3.4		al with digital files in relation to the following:
	□ file manage	
		ion techniques
	-	ssion and decompression systems
		ssion of digital files
	creating rel	ationship between primary and secondary data

i	describe causes and treatments of common faults in digital imaging
3.6	describe the administrative procedures to include:
	□ planning
	□ scheduling
	 recording and reporting
	□ product labelling
	explain how to ensure compliance with the company quality standards
	describe the range of proofs in use, their role in the printing process and the limiting factors
	explain the meaning of mail merge and how to verify the file for output is in the required format
ł	explain how to determine that a file containing print that has to be placed into the document during printing is in the required format to meet the job specification
	explain how to download the primary file to the printer's memory or disc
	explain the possible causes of faults which can cause the following problems
	$\hfill \square$ variable data being in the wrong place or wrong sequence
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
	stoppages causing records to be missed.

Unit 312 Control the use of variable data with digital printing machines

Supporting information

Guidance

AC3.5 – Candidates must describe at least **three** causes and treatments of common faults in digital imaging.

Unit 313 Manage materials handling for newspaper and periodicals print finishing

UAN:	K/502/8619
Level:	Level 3
Credit value:	6
GLH:	26
Relationship to NOS:	This unit is linked to Proskills NOS Unit 331.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage the materials handling process in Newspapers and Periodicals. This includes the management of personnel, ensuring they are suitably trained and skilled. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.
Learning outcome	The learner will:
1. be able to plan ma	aterials handling for finishing operations
Assessment criteria	
The learner can:	
1.1 identify: ☐ the type and quantity of materials required for production ☐ the location and availability of materials	
1.2 check and confirm that materials handling machinery is safe and suitable for the work required	
1.3 allocate materials handling tasks according to people's ability to handle the task safely and efficiently	
1.4 explain to staff are	what the movement requirements and deadlines
1.5 check that staff are aware of the safety precautions they must take when operating materials handling machinery and	

machines.

Learning outcome		The learner will:	
2. be able to monitor the movement of materials for finishing operations			
Assessment criteria			
The learner can:			
2.1	check that materials are delivered on time		
2.2	monitor materials handling to check that:		
	machines as materials	nd machinery operate without damage to	
	operators u	se safe working methods	
2.3		ve communications and good working th departments affected by the movement of	
2.4	keep records of guidelines.	materials handling as required by company	

Learning outcome	The learner will:		
3. know how to control materials handling for newspaper and periodicals print finishing			
Assessment criteria			
The learner can:			
3.1 explain the res	explain the responsibilities in regards of time and resources for the following:		
	 the different types of resource, including labour, materials, machinery 		
\square the relatio	nship between resource usage and profitability		
□ how to ma	ximise productivity		
and people, the	describe the problems that can occur when managing machines and people, their probable causes and possible solutions for the following that could:		
affect the r	naterial being delivered on time		
produce a	shortfall in the supply of materials		
damage th	e material		
\Box cause the ∇	wrong material to be delivered		
affect Heal	th and Safety		
how to liaise w	identify maintenance schedules and needs and rith relevant colleagues to ensure machinery is the required standard		
	ne parts that may require replacing and explain the y on the availability and replacement of these		
handling tasks safely and effic	explain the companies procedure for allocating materials handling tasks according to people's ability to handle the task safely and efficiently and explain why an operator would not be suitable for the task		
<u>=</u>	npanies procedure for explaining to operators ment requirements and deadlines are		
scheduling			
□ recording	and reporting		

	□ product labelling
	 reporting faults and production downtime
3.8	explain the company procedures for the repair or replacement of machinery which is faulty or not suitable, to include;
	□ reporting procedures
	□ recurring faults
3.9	explain the importance of cooperation with colleagues who are responsible for remedying faults
3.10	explain how to check the machinery is safe to use after repair
3.11	explain the company requirements for recording information on adjustment and repair.

Unit 313 Manage materials handling for newspapers and periodicals finishing

Supporting information

Guidance

AC3.4 – Candidates must identify at least **three** machine parts that may require replacing, the company policy on the availability and the replacement of these.

AC3.5 – Candidates must give at least **two** examples of why an operator would no be suitable for handling tasks mentioned in the AC.

Unit 314 Manage adhesive binding machinery

UAN:	M/502/8556	
Level:	Level 3	
Credit value:	4	
GLH:	18	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 343.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage adhesive binding machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome	The learner will:	
1. be able to make-re	ady adhesive binding machine	
Assessment criteria		
The learner can:		
1.1 obtain and check	the job specification	
1.2 identify and obta	, -	
1.3 ensure the work	•	
1.4 set the adhesive binding machinery to meet the job specification		
taking into consideration, for example:		
☐ the size of the article		
the temperature and volume of the adhesive		
□ production speeds		
*	- Production annual	
_	nt meets the job specifications and company	
	quality standard prior to full production obtain an approved sample of the product being produced.	
1.6 obtain an approv	obtain an approved sample of the product being produced.	

Lear	ning outcome	The learner will:	
2. ł	2. be able to manage output from adhesive binding machinery		
Asse	essment criteria		
The	learner can:		
2.1		r production machines at the optimum speed, downtime and to the required quality standard	
2.2	carry out checks in line with company procedures that the output matches the job requirements		
2.3	run the required number of good copies, keeping spoiled material to a minimum		
2.4	record the prod	uction and quality assurance details following dures	
2.5	-	out is prepared for the next stage in the process, in company procedures.	

Learning outcome T		The learner will:	
3. k	3. know how to manage adhesive binding machinery		
Asses	ssment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	☐ the differen	t types of resource, including labour, materials,	
		ship between resource usage and profitability	
		imise productivity	
3.3	•		
	\square affect the q	uality of the image	
	□ reduce the	rate of output	
		h and Safety	
3.4	explain how to identify maintenance schedules and needs and how to liaise with relevant colleagues to ensure output is maintained to the required standard and rate		
3.5	explain how and	d when to make adjustments to the machine eve the required job specification and quality	
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com	pany administrative procedures, for example:	
	\square scheduling		
	recording a	nd reporting	
	□ product lab		
		ults and production downtime	
3.8	-	hods available for giving clear instructions to rding their responsibility in the operation of the nachinery	
3.9	explain the checunderstood and	eks to make to ensure the instructions have been followed.	

Learr	ning outcome	The learner will:	
	4. be able to monitor the quality of product from the adhesive binding machines		
Asses	sment criteria		
The l	The learner can:		
4.1	operate the mad maintaining qua	chine at the required production speeds ality of output	
4.2	use recognised the approved sa	quality control methods to check output against mple	
4.3	•	uired number of good copies to meet any requirements	
4.4	identify the pro	duct which has met the approved standards	
4.5	follow company waste	and legal procedures to identify and remove	
4.6	follow company	procedures for recording production and quality	

assurance records.

Learning outcome		The learner will:	
	5. know how to monitor the quality of output from the adhesive binding machines		
Asse	ssment criteria		
The	learner can:		
5.1	explain the company procedures for monitoring the quality of output. To include:		
	frequency		
	\Box type of chec	eks	
	viewing cor	ditions	
	quality cont	rol aids/devices	
	☐ acceptable	colerances/variation	
5.2	describe the purpose of achieving an approved copy		
5.3	identify the items on the product to be monitored during production output		
5.4	describe the quality control aids located on the printed copy to aid in the monitoring of production		
5.5	describe methods used to monitor the standard of output achieved		
5.6	explain why it is important to clearly identify both good and bad copy on completion of the run		
5.7	describe the company procedures for the removal of waste		
5.8	explain the reason for maintaining performance records, for		
	example:		
	machine ma	akeready	
	\Box running spe	eeds	
	\square production	time	
	downtime i	n production.	

Unit 314 Manage adhesive binding machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur when managing production machines, their probable causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may require replacing, the company policy on the availability and replacement of these.

AC5.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 315 Manage cutting and creasing machinery

UAN	:	K/502//8586	
Leve	l:	Level 3	
Cred	it value:	9	
GLH:		26	
Rela	tionship to NOS:	This unit is linked to Proskills NOS Unit 351.	
	orsement by a or or regulatory or:	This unit is endorsed by Proskills	
Aim:		The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage cutting and creasing machinery in the Print Finishing process They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome The learner will:			
	be able to make-ready cutting and creasing machinery for production		
Assessment criteria			
The	learner can:		
1.1	obtain all the information required for the job		
1.2	identify and obtain the materials that must be used for the job		
1.3	O		
1.4			
1.5	set the cutting a consideration, f	nd creasing machinery ready to run, taking into	
	□ safety requ	-	
		fed squarely into the machine	
		of cuts and creases is in line with job	
	requiremer	•	
	material is damage	cut and creased squarely and delivered without	
	\square production	time	
1.6	obtain an appro	ved sample of the product being produced.	

Learning outcome		The learner will:		
2. b	2. be able to manage output from cutting and creasing machines			
Asse	ssment criteria			
The	learner can:			
2.1		r production machines at the optimum speed, downtime and to the required quality standard		
2.2	carry out checks in line with company procedures that the output matches the job requirements			
2.3	run the required number of good copies, keeping spoiled material to a minimum			
2.4	follow the comp	pany procedures for the removal of waste		
2.5	record the prod company proce	luction and quality assurance details following dures		
2.6	-	out is prepared for the next stage in the process, in company procedures.		

Learning outcome		The learner will:	
3. kı	3. know how to manage cutting and creasing machines		
Asses	sment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differen machinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
		imise productivity	
3.3	machines, their example a probl		
	-	uality of the image	
		rate of output	
		h and Safety	
3.4	explain how to identify maintenance schedules and needs and how to liaise with relevant colleagues to ensure output is maintained to the required standard and rate		
3.5	•	I when to make adjustments to the machine we the required job specification and quality	
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com scheduling	pany administrative procedures, for example:	
	recording a	nd reporting	
	□ product lab	elling	
	reporting fa	ults and production downtime	
3.8	•	nods available for giving clear instructions to ding their responsibility in the operation of the nachinery	
3.9	explain the chec	ks to make to ensure the instructions have been	

understood and followed.

Lear	ning outcome	The learner will:	
	4. know how to monitor the quality of output from cutting and creasing machines		
Asse	ssment criteria		
The	learner can:		
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	frequency		
	□ type of chec	cks	
	viewing cor	nditions	
	quality con	trol aids/devices	
	acceptable	tolerances/Variation	
4.2	describe the pu	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4	describe the quality control aids located on the printed copy to aid in the monitoring of production		
4.5	describe methods used to monitor the standard of output achieved		
4.6	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run	
4.7	describe the company procedures for the removal of waste		
4.8	explain the reason for maintaining performance records, for		
	example:		
	□ machine ma	akeready	
	□ running spe	eeds	
	\square production	time	
	downtime i	n production.	

Unit 315 Manage cutting and creasing machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, company policy on the availability and replacement of these.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 316 Manage automated inserting equipment for newspapers and periodicals

R/502/8632

UAN:

Level:	Level 3	
Credit value:	6	
GLH:	25	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 344	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills.	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage automated inserting equipment for newspapers and periodicals. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome The learner will:		
be able to make-ready automated inserting equipment for newspapers and periodicals		
Assessment criteria		
The learner can:		
1.1 obtain and che	ck the job specification	
1.2 identify and ol	otain the materials required for the job	
1.3 ensure the wo	rking environment is safe for production	
	ng equipment to meet the job specification taking tion, for example:	
□ the size of	the document	
	t sequence	
\square mis-feed d	etector(s) are set correctly	
_	zation with other machinery	
☐ production		
	put meets the job specifications and company	
	rd prior to full production	
1.6 obtain an appr	oved sample of the product being produced.	

Learning outcome		The learner will:
2. be able to manage output from automated inserting equipment for newspapers and periodicals		
Asse	essment criteria	
The	learner can:	
2.1		r production machines at the optimum speed, downtime and to the required quality standard
2.2	carry out check matches the job	s in line with company procedures that the output requirements
2.3	run the require	d number of good copies, keeping spoiled material
2.4	follow the comp	pany procedures for the removal of waste
2.5	record the prod company proce	luction and quality assurance details following dures
2.6	-	out is prepared for the next stage in the process, in h company procedures.

Learning outcome		The learner will:		
	3. know how to manage automated inserting equipment for newspapers and periodicals			
Asse	ssment criteria			
The	learner can:			
3.1	describe the pri	nciples of the process being managed		
3.2	-	onsibilities in regards of time and resources:		
	the differentmachinery	t types of resource, including labour, materials,		
		ship between resource usage and profitability imise productivity		
3.3	•			
	\square affect the q	uality of the product		
	□ reduce the	rate of output		
		h and Safety		
3.4	how to liaise wi	dentify maintenance schedules and needs and th relevant colleagues to ensure output is ne required standard and rate		
3.5	•	d when to make adjustments to the machine eve the required job specification and quality		
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these		
3.7	explain the com	pany administrative procedures, for example:		
	\square scheduling			
	\square recording a	nd reporting		
	□ product lab			
	• •	aults and production downtime		
3.8	•	hods available for giving clear instructions to rding their responsibility in the operation of the		

print finishing machinery

3.9 explain the checks to make to ensure the instructions have been understood and followed.

Learning outcome		The learner will:	
	4. know how to monitor the quality of output from automated inserting equipment for newspapers and periodicals		
Asses	ssment criteria		
The l	earner can:		
4.1	explain the comoutput. To inclu	pany procedures for monitoring the quality of de:	
	frequency		
	\Box type of chec	ks	
	viewing cor	ditions	
	quality conf	rol aids/devices	
	acceptable	colerances/variation	
4.2	describe the pu	pose of achieving an approved copy	
4.3	identify the iten production outp	ns on the product to be monitored during out	
4.4	describe a range of methods used to monitor the standard of output achieved		
4.5	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run	
4.6	describe the cor	npany procedures for the removal of waste	
4.7	explain the reas	on for maintaining performance records, for	
	example:		
	machine ma	ıkeready	
	\Box running spe	eeds	
	\square production	time	
	downtime i	n production.	

Learning outcome The learner will:

5. be able to monitor the quality of output from automated inserting equipment for newspapers and periodicals

Assessment criteria

The learner can:

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for completing production and quality assurance records.

Unit 316 Manage automated inserting equipment for newspapers and periodicals

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

Unit 317 Manage foil blocking machinery

UAN:	T/502/8574	
Level:	Level 3	
Credit value:	5	
GLH:	22	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 246.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage foil blocking machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome	The learner will:	
1. be able to make-rea	dy the foil blocking machinery	
Assessment criteria		
The learner can:		
1.1 obtain and check the job specification		
1.2 identify and obtain	n the materials required for the job	
1.3 ensure the working environment is safe for production		
1.4 set up foil blockin	g machinery so that:	
-	ure is correct for the material to be blocked	
	e blocked is fed squarely, coming to the register	
against stops	evenly, to give minimum gap between	
impressions	eveniy, to give inininum gap between	
•	ean, sharp and have overall solid colour density	
images are accurately positioned on the material		
	olours are in register and fit with other colours	
□ production ti	mes can be met	
1.5 ensure the output meets the job specifications and company quality standard prior to full production		
1.6 obtain an approve	6 obtain an approved sample of the product being produced.	

Lear	ning outcome	The learner will:
2. be able to manage output from foil blocking machinery		
Asse	ssment criteria	
The	learner can:	
2.1		r production machines at the optimum speed, downtime and to the required quality standard
2.2	carry out checks in line with company procedures that the output matches the job requirements	
2.3	run the required number of good copies, keeping spoiled material to a minimum	
2.4	follow the comp	any procedures for the removal of waste
2.5	record the prod	uction and quality assurance details following dures
2.6	ensure the output is prepared for the next stage in the process, in accordance with company procedures.	

Learning outcome		The learner will:	
3. kı	3. know how to manage foil blocking machinery		
Asses	Assessment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differen machinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	imise productivity	
3.3	-	ms that can occur when managing production probable causes and possible solutions for em that could:	
	-	uality of the image	
		rate of output	
		h and Safety	
3.4	how to liaise wi	dentify maintenance schedules and needs and th relevant colleagues to ensure output is ne required standard and rate	
3.5	•	I when to make adjustments to the machine ve the required job specification and quality	
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com scheduling	pany administrative procedures, for example:	
	recording a	nd reporting	
	□ product lab	elling	
	reporting fa	ults and production downtime	
3.8	colleagues regar	-	
3.9	explain the chec	ks to make to ensure the instructions have been	

understood and followed.

Learn	ing outcome	The learner will:
4. know how to monitor the quality of output from Foil Blocking machinery		
Asses	sment criteria	
The le	earner can:	
4.1	-	pany procedures for monitoring the quality of
	output. To inclu	de:
	frequency	
	\Box type of chec	cks
	viewing cor	nditions
	quality con	trol aids/devices
	□ acceptable	tolerances/variation
4.2	describe the pu	rpose of achieving an approved copy
4.3	identify the items on the product to be monitored during production output	
4.4	-	ality control aids located on the printed copy to coring of production.
4.5	describe a range output achieved	e of methods used to monitor the standard of
4.6	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run
4.7	describe the cor	mpany procedures for the removal of waste
4.8	explain the reas	son for maintaining performance records, for
	example:	
	□ machine ma	akeready
	□ running spe	eeds
	□ production	time
	downtime i	n production.

Learning outcome The learner will:

5. be able to monitor the quality of printed product from Foil Blocking machinery

Assessment criteria

The learner can:

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for completing production and quality assurance records.

Unit 317 Manage foil blocking machinery Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their probable causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

Unit 318 Manage insetting-stitching-trimming machinery

UAN:	F/502/8593		
Level:	Level 3		
Credit value:	9		
GLH:	33		
Relationship to NOS:	This unit is linked to Proskills NOS Unit 341.		
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills		
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage insetting-stitching-trimming machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.		
Learning outcome Th	e learner will:		
1. be able to make-ready	1. be able to make-ready insetting-stitching-trimming machinery		
Assessment criteria			
The learner can:			
1.1 obtain and check the job specification			
1.2 identify and obtain the materials required for the job			
1.3 ensure the working environment is safe for production			
1.4 set up the line so th	-		
	erted to give the correct page sequence		
 sections and covers are fed into the stitcher squarely and without damage 			
	hold firmly, and are securely clenched		
 stitched books are fed into the trimmer squarely and without damage 			

□ books are trimmed evenly and squarely to the required size,

 $\hfill \Box$ books are delivered without damage or distortion

ensure the output meets the job specifications and company

obtain an approved sample of the product being produced.

without marking

1.5

1.6

□ production times can be met

quality standard prior to full production

Lear	ning outcome	The learner will:	
1	2. be able to manage output from insetting-stitching-trimming machinery		
Asse	ssment criteria		
The	learner can:		
2.1		r production machines at the optimum speed, downtime and to the required quality standard	
2.2	carry out checks in line with company procedures that the output matches the job requirements		
2.3	run the required number of good copies, keeping spoiled material to a minimum		
2.4	follow the comp	any procedures for the removal of waste	
2.5	record the production and quality assurance details following company procedures		
2.6		ut is prepared for the next stage in the process, in company procedures.	

Learning outcome		The learner will:	
3. k	3. know how to manage insetting-stitching-trimming machines		
Asse	ssment criteria		
The	learner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differen machinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	imise productivity	
3.3		ms that can occur when managing production probable causes and possible solutions for em that could:	
	□ affect the quality	uality of the image	
	□ reduce the	rate of output	
	□ affect Healt	n and Safety	
3.4	how to liaise wi	dentify maintenance schedules and needs and the relevant colleagues to ensure output is ne required standard and rate	
3.5	•	l when to make adjustments to the machine ve the required job specification and quality	
3.6	<u>-</u>	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com scheduling	pany administrative procedures, for example:	
	recording a	nd reporting	
	product lab	elling	
	reporting fa	ults and production downtime	
3.8		nods available for giving clear instructions to ding their responsibility in the operation of the nachinery	

3.9 explain the checks to make to ensure the instructions have been understood and followed.

Learning outcome		The learner will:	
4.	4. know how to monitor the quality of output from insetting, stitching, trimming machines		
Ass	essment criteria		
The	e learner can:		
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	\square frequency		
	\Box type of chec	cks	
	viewing cor	nditions	
	quality con	trol aids/devices	
	-	tolerances/variation	
4.2	-	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4	describe the quality control aids located on the printed copy to aid in the monitoring of production.		
4.5	describe a range output achieved	e of methods used to monitor the standard of	
4.6	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run	
4.7	describe the cor	npany procedures for the removal of waste	
4.8	explain the reas example:	on for maintaining performance records, for	
	machine ma	akeready	
	□ running spe	eeds	
	\square production	time	
	□ downtime i	n production.	

Learning outcome The learner will:

5. be able to monitor the quality of output from insetting, stitching, trimming machines machinery

Assessment criteria

The learner can:

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for accurately recording production and quality assurance records.

Unit 318 Manage insetting-stitching-trimming machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

Unit 319 Manage guillotines

UAN:

1.7

M/502/8623

011111	11,502,0025
Level:	Level 3
Credit value:	9
GLH:	26
Relationship to NOS:	This unit is linked to Proskills NOS Unit 331.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage guillotines They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output. Blade changing is also a key part of this unit.
Learning outcome	The learner will:
1. be able to set/pro	gramme and run guillotines
Assessment criteria	
The learner can:	
1.1 obtain all detail	s of the work required
1.2 identify and obtain the materials needed to meet the job	
specification	
1.3 check that the g	guillotine and work area is safe and ready for
-	turers instruction to start up the guillotine
	otine taking into consideration:
	n existing programme or the need to create a ed cutting sequence
the require handling	d cut size(s) is(are) produced with minimum
\square setting the	back fence manually for each cut
\square production	
	eets the company's quality standard, making justments, if the standard is not met
4 7 1	

obtain an approved sample of the product being produced.

Lear	ning outcome	The learner will:
2. b	e able to manage	output and quality from guillotine
Asse	ssment criteria	
The	learner can:	
2.1		r production machines at the optimum speed, downtime and to the required quality standard
2.2	carry out checks in line with company procedures that the output matches the job requirements.	
2.3	ensure required number of good copies are produced, keeping spoiled material to a minimum	
2.4	follow the comp	pany procedures for the removal of waste
2.5	record the production and quality assurance details following company procedures	
2.6	ensure the output is prepared for the next stage in the process, in accordance with company procedures.	

Learning outcome		The learner will:	
3. kı	3. know how to manage output from guillotines		
Asses	sment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differen machinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	imise productivity	
3.3	machines, their example a probl		
	-	uality of the product	
		rate of output	
		h and Safety	
3.4	how to liaise wi	dentify maintenance schedules and needs and th relevant colleagues to ensure output is ne required standard and rate	
3.5	•	l when to make adjustments to the machine ve the required job specification and quality	
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com scheduling	pany administrative procedures, for example:	
	recording a	nd reporting	
	□ product lab	elling	
	reporting fa	ults and production downtime	
3.8	•	nods available for giving clear instructions to ding their responsibility in the operation of the nachinery	
3.9	explain the chec	ks to make to ensure the instructions have been	

understood and followed.

Learning outcome		The learner will:	
4. be	4. be able to monitor the quality of output from the guillotine		
Asses	Assessment criteria		
The le	earner can:		
4.1	operate the made	chine at the required production speeds ality of output	
4.2	use recognised the approved sa	quality control methods to check output against mple.	
4.3	• .	uired number of good copies to meet pany requirements	
4.4	identify the pro	duct which has met the approved standards	
4.5	follow company waste	and legal procedures to identify and remove	
4.6	follow company quality assuran	procedures for completing production and ce records.	

Learning outcome		The learner will:	
5. k	5. know how to monitor quality of guillotine cutting		
Asses	ssment criteria		
The l	earner can:		
5.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	☐ frequency		
	\Box type of chec	eks	
	viewing cor	ditions	
	quality conf	rol aids/devices	
	□ acceptable	colerances/variation	
5.2	describe the pu	rpose of achieving an approved copy	
5.3	identify the items on the product to be monitored during production output		
5.4		ality control aids located on the printed copy to oring of production	
5.5	describe methods used to monitor the standard of output achieved		
5.6	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run	
5.7	describe the cor	npany procedures for the removal of waste	
5.8	explain the reas	on for maintaining performance records, for	
	example:		
	machine ma	akeready	
	□ running spe	eeds	
	\square production	time	
	□ downtime i	n production.	

Lear	ning outcome	The learner will:	
6. l	6. know how to change guillotine blades and ancillary items		
Asse	essment criteria		
The	learner can:		
6.1	6.1 explain the Manufacturer's procedure for changing guillotine blades and ancillary items to include:		
	tools required tools	red	
	\square PPE		
	process for	dealing with used blades	
	\square recording p	rocedures and information required	
6.2	•	check that the machine is safe to operate, once has taken place.	

Unit 319 Manage guillotines

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC5.5 – Candidates must describe at least **two** methods used to monitor standard of output achieved.

Unit 320 Manage mail processing machinery

UAN:		A/502/8589
Level	:	Level 3
Credi	t value:	5
GLH:		22
Relat	ionship to NOS:	This unit is linked to Proskills NOS Unit 370.
	rsement by a r or regulatory :	This unit is endorsed by Proskills.
Aim:		The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage mail processing machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output
	ning outcome	The learner will: eady mail processing machinery
	ssment criteria	ady man processing machinery
1.1	The learner can: 1.1 obtain and check the job specification	
1.2	, 1	
1.3	=	king environment is safe for production
1.4		cessing machinery, so that, for example;
		eds squarely and centrally to the trimmer unit, ning is required
	·	processed without damage or distortion
	□ inserts are	fed as required into the required envelopes
	=	carrier sheets or wrappings are coded accurately
		count is maintained
	-	times can be met
1.5	-	ut meets the job specifications and company
1.6	= =	d prior to full production ved sample of the product being produced.
1.0	obtain an appro	ved sample of the product being produced.

Learr	ning outcome	The learner will:
2. b	e able to manage	output from mail processing machinery
Asses	ssment criteria	
The l	earner can:	
2.1		r production machines at the optimum speed, downtime and to the required quality standard
2.2	carry out checks matches the job	s in line with company procedures that the output requirements
2.3	run the required number of output, keeping spoiled material to a minimum	
2.4	follow the comp	any procedures for the removal of waste
2.5	record the prod company proces	uction and quality assurance details following dures
2.6	-	ut is prepared for the next stage in the process, in company procedures.

Learning outcome		The learner will:		
3. kı	3. know how to manage mail processing machinery			
Asses	Assessment criteria			
The le	earner can:			
3.1	describe the pri	nciples of the process being managed		
3.2	explain the resp example:	onsibilities in regards of time and resources, for		
	the differen machinery	t types of resource, including labour, materials,		
		ship between resource usage and profitability imise productivity		
3.3	<u>-</u>			
	-	uality of the image		
		rate of output		
		h and Safety		
3.4	explain how to identify maintenance schedules and needs and how to liaise with relevant colleagues to ensure output is maintained to the required standard and rate			
3.5	•	d when to make adjustments to the machine eve the required job specification and quality		
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these		
3.7	explain the com scheduling	pany administrative procedures, for example:		
	recording a	nd reporting		
	□ product lab	elling		
	\square reporting fa	ults and production downtime		
3.8		hods available for giving clear instructions to rding their responsibility in the operation of the nachinery		

3.9 explain the checks to make to ensure the instructions have been understood and followed.

Lear	ning outcome	The learner will:		
	4. know how to monitor the quality of output from mail processing machinery			
Asses	ssment criteria			
The l	earner can:			
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:		
	frequency			
	□ type of chec	eks		
	viewing cor	nditions		
	quality conf	crol aids/devices		
	acceptable	tolerances/Variation		
4.2	describe the pur	rpose of achieving an approved copy		
4.3	identify the items on the product to be monitored during production output			
4.4	describe methods used to monitor the standard of output achieved			
4.5	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run		
4.6	describe the cor	npany procedures for the removal of waste		
4.7	explain the reas example:	on for maintaining performance records, for		
	machine ma	ake ready		
	□ running spe	eeds		
	\square production	time		
	downtime i	n production.		

Learning outcome The learner will: 5. be able to monitor the quality of output from mail processing machinery Assessment criteria The learner can: operate the machine at the required production speeds 5.1 maintaining quality of output use recognised quality control methods to check output against 5.2 the approved sample 5.3 produce the required number of good copies to meet customer/company requirements 5.4 identify the product which has met the approved standards 5.5 follow company and legal procedures to identify and remove waste 5.6 follow company procedures for completing production and quality assurance records.

Unit 320 Manage mail processing machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.4 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 321 Manage casing-in machinery

UAN:	T/502/8560
Level:	Level 3
Credit value:	7
GLH:	26
Relationship to NOS:	This unit is linked to Proskills NOS Units 330 & 354.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage casing-in machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.

Learning outcome		The learner will:	
1. b	1. be able to make-ready casing-in machinery		
Asse	ssment criteria		
The	learner can:		
1.1	obtain and chec	k the job specification	
1.2	identify and obt	ain the materials required for the job	
1.3	ensure the working environment is safe for production		
1.4	set up casing-in machinery, so that the output will meet the job specification and the company quality standards		
1.5	-	ut meets the job specifications and company d prior to full production	
1.6	obtain an appro	ved sample of the product being produced.	

Lear	ning outcome	The learner will:	
2. b	2. be able to manage casing-in machinery		
Asse	ssment criteria		
The	learner can:		
2.1		r production machines at the optimum speed, downtime and to the required quality standard	
2.2	carry out checks matches the job	s in line with company procedures that the output requirements	
2.3	run the required minimum	d number of output, keeping spoiled material to a	
2.4	follow the comp	pany procedures for the removal of waste	

- 2.5 record the production and quality assurance details following company procedures
- 2.6 ensure the output is prepared for the next stage in the process, in accordance with company procedures.

Learning outcome	The learner will:		
3. know how to manage casing-in machinery			
Assessment criteria			
The learner can:			
3.1 describe the pr	inciples of the process being managed		
	oonsibilities in regards of time and resources, for		
example:			
□ the differer machinery	nt types of resource, including labour, materials,		
	nship between resource usage and profitability		
	kimise productivity		
	ems that can occur when managing production		
	probable causes and possible solutions for		
example a prob	lem that could:		
$\ \square \ \ $ affect the q	uality of the image		
	rate of output		
	ch and Safety		
	identify maintenance schedules and needs and		
	ith relevant colleagues to ensure output is he required standard and rate		
	d when to make adjustments to the machine		
-	settings to achieve the required job specification and quality		
standards			
_	e parts that may require replacing and explain the		
	on the availability and replacement of these		
-			
scheduling			
	and reporting		
□ product lab			
	aults and production downtime hods available for giving clear instructions to		
	rding their responsibility in the operation of the		
print finishing i			
	cks to make to ensure the instructions have been		
understood and followed.			
Learning outcome	The learner will:		
4. know how to monitor the quality of output from mail processing machinery			
Assessment criteria			

☐ frequency

The learner can:

output. To include:

4.1

explain the company procedures for monitoring the quality of

	□ type of chec	cks
	viewing cor	nditions
	quality cont	rol aids/devices
	□ acceptable t	tolerances/variation
4.2	describe the pur	rpose of achieving an approved copy
4.3	identify the iten production outp	ns on the product to be monitored during out
4.4	describe methodachieved	ds used to monitor the standard of output
4.5	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run
4.6	describe the cor	npany procedures for the removal of waste
4.7	explain the reas example:	on for maintaining performance records, for
	machine ma	ake ready
	□ running spe	eeds
	\square production	time
	downtime i	n production.
Lear	ning outcome	The learner will:
	e able to monitor n machinery	the quality of output of product from the casing-
Asse	ssment criteria	
The	learner can:	
5.1	identify the feat	ures of the product for example:
	☐ folding posi	tions
	□ gluing	
	□ cutting	
	□ creasing	
5.2	monitor that the	e output from the machine meets the job standard
5.3		lity of the finishing process inline with company scheduling to include for example:

□ gluing□ cutting□ creasing□ enhancing.

Unit 321 Manage casing-in machinery Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.4 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 322 Manage case making machinery

UAN:	T/502/8557	
Level:	Level 3	
Credit value:	6	
GLH:	25	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 329.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage case making machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome	The learner will:	
1. be able to make-r	eady case making machinery	
Assessment criteria		
The learner can:		
1.1 obtain and ched	.1 obtain and check the job specification	
1.2 identify and ob	1.2 identify and obtain the materials required for the job	
	1.3 ensure the working environment is safe for production	
1.4 set up case making machinery correctly taking into consideration		
evenly	hollows transfer from feeders squarely and	
grain direc		
	rial transfers from the feeder squarely and evenly	
	lied evenly at the correct temperature rial is turned in evenly and squarely onto boards	
production		
	out meets the job specifications and company	
1	d prior to full production	
	oved sample of the product being produced.	

Learning outcome		The learner will:			
2. be able to manage output from mail processing machinery					
Assessment criteria					
The learner can:					
2.1	run and monitor production machines at the optimum speed, with minimum downtime and to the required quality standard				
2.2	carry out checks in line with company procedures that the output matches the job requirements				
2.3	run the required number of output, keeping spoiled material to a minimum				
2.4	follow the comp	pany procedures for the removal of waste			
2.5	record the production and quality assurance details following company procedures				
2.6	ensure the output is prepared for the next stage in the process, in accordance with company procedures.				

Learning outcome		The learner will:			
3. know how to manage the case making machinery					
Assessment criteria					
The learner can:					
3.1	describe the principles of the process being managed				
3.2	explain the responsibilities in regards of time and resources, for				
	example:				
	 the different types of resource, including labour, materials, machinery 				
	☐ the relationship between resource usage and profitability				
	□ how to maximise productivity				
3.3	1 0 01				
	machines, their probable causes and possible solutions for				
	example a problem that could: affect the quality of the image				
	-	rate of output			
		h and Safety			
3.4		identify maintenance schedules and needs and			
	•	th relevant colleagues to ensure output is			
	maintained to t	he required standard and rate			
3.5	*	d when to make adjustments to the machine			
	settings to achie	eve the required job specification and quality			
3.6		e parts that may require replacing and explain the			
3.0	•	on the availability and replacement of these			
3.7	explain the com	pany administrative procedures, for example:			
	\square scheduling				
	\square recording a	nd reporting			
	product lab	elling			
	\square reporting fa	aults and production downtime			
3.8		hods available for giving clear instructions to			
	colleagues regar	rding their responsibility in the operation of the			
	himir imisimig i	iiaciiiiiei y			

3.9 explain the checks to make to ensure the instructions have been understood and followed.

Learning outcome		The learner will:			
4.	4. know how to monitor the quality of output from case making machinery				
Assessment criteria					
The learner can:					
4.1	explain the company procedures for monitoring the quality of output. To include:				
	frequency				
	□ type of checks				
	□ viewing conditions				
	quality control aids/devices				
	•	colerances/Variation			
4.2	describe the purpose of achieving an approved copy				
4.3	identify the items on the product to be monitored during production output				
4.4	-	ality control aids located on the printed copy to oring of production			
4.5	describe methods used to monitor the standard of output achieved				
4.6	explain why it is important to clearly identify both good and bad copy on completion of the run				
4.7	describe the cor	npany procedures for the removal of waste			
4.8	explain the reas	on for maintaining performance records, for			
	example:				
	machine ma	•			
	\Box running spe				
	production				
	□ downtime i	n production.			

The learner will: Learning outcome 5. be able to monitor the quality of product from case-making machinery Assessment criteria The learner can: 5.1 operate the machine at the required production speeds maintaining quality of output 5.2 use recognised quality control methods to check output against the approved sample produce the required number of good copies to meet 5.3 customer/company requirements 5.4 identify the product which has met the approved standards 5.5 follow company and legal procedures to identify and remove 5.6 follow company procedures for completing production and

quality assurance records.

Unit 322 Manage case making machinery Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 323 Manage folding machinery

UAN:	F/502/8562
Level:	Level 3
Credit value:	8
GLH:	29
Relationship to NOS:	This unit is linked to Proskills NOS Unit 332.
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage folding machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.
Learning outcome	The learner will:
	The learner will: ady the folding machinery
1. be able to make-re Assessment criteria The learner can:	rady the folding machinery
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check	k the job specification
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt	k the job specification ain the materials required for the job
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work	k the job specification ain the materials required for the job
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work 1.4 set up the lamin	k the job specification ain the materials required for the job king environment is safe for production ator, so that:
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work 1.4 set up the lamin laminating for	k the job specification ain the materials required for the job sing environment is safe for production ator, so that: film is fed squarely on to the product
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work 1.4 set up the lamin laminating for	k the job specification ain the materials required for the job king environment is safe for production ator, so that:
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work 1.4 set up the lamin laminating to bubbles	k the job specification ain the materials required for the job sing environment is safe for production ator, so that: film is fed squarely on to the product
1. be able to make-re Assessment criteria The learner can: 1.1 obtain and check 1.2 identify and obt 1.3 ensure the work 1.4 set up the lamin laminating to bubbles production 1.5 ensure the outp	k the job specification ain the materials required for the job sing environment is safe for production ator, so that: film is fed squarely on to the product takes place without marking, creasing or air

Lear	ning outcome	The learner will:
2. b	2. be able to manage output from the folding machinery	
Assessment criteria		
The	learner can:	
2.1		r production machines at the optimum speed, downtime and to the required quality standard
2.2	carry out checks matches the job	s in line with company procedures that the output requirements
2.3	run the required	d number of output, keeping spoiled material to a

minimum

2.4 follow the company procedures for the removal of waste

2.5 record the production and quality assurance details following company procedures

2.6 ensure the output is prepared for the next stage in the process, in accordance with company procedures.

Lear	ning outcome	The learner will:	
3. know how to manage mail processing machinery			
Assessment criteria			
The	The learner can:		
3.1	-	inciples of the process being managed	
3.2	explain the resplexample:	oonsibilities in regards of time and resources, for	
	the differentmachinery	nt types of resource, including labour, materials,	
	\square the relation	nship between resource usage and profitability	
	□ how to max	ximise productivity	
3.3	*	ems that can occur when managing production probable causes and possible solutions for lem that could:	
	\square affect the q	uality of the image	
		rate of output	
		th and Safety	
3.4		identify maintenance schedules and needs and	
		ith relevant colleagues to ensure output is he required standard and rate	
3.5		d when to make adjustments to the machine	
3.5	•	eve the required job specification and quality	
3.6		ne parts that may require replacing and explain the on the availability and replacement of these	
3.7	explain the com	npany administrative procedures, for example:	
	recording a	and reporting	
	product lab	pelling	
	\square reporting f	aults and production downtime	
3.8		chods available for giving clear instructions to rding their responsibility in the operation of the machinery	
3.9	explain the che understood and	cks to make to ensure the instructions have been d followed.	

Learning outcome		The learner will:	
	4. know how to monitor the quality of output from the folding machinery		
Asse	ssment criteria		
The	learner can:		
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	frequency		
	type of chec	eks	
	viewing cor	ditions	
	quality cont	rol aids/devices	
	-	colerances/variation	
4.2	-	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4	describe the quality control aids located in the printed copy to aid in the monitoring of production		
4.5	describe methods used to monitor the standard of output achieved		
4.6	explain why it is important to clearly identify both good and bad copy on completion of the run		
4.7	describe the company procedures for the removal of waste		
4.8	8 explain the reason for maintaining performance records, for		
	example:		
	machine ma		
	□ running Spe		
	\square production		
	downtime i	n production.	

Learning outcome The learner will: 5. be able to monitor the quality of printed product from the folding machinery

Assessment criteria

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 identify the product which has met the approved standards
- 5.4 follow company and legal procedures to identify and remove waste
- 5.5 follow company procedures for completing production and quality assurance records.

Unit 323 Manage folding machinery Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 324 Manage auto-fed sewing machinery

UAN:	R/502/8565	
Level:	Level 3	
Credit value:	7	
GLH:	26	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 265.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage auto-fed sewing machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output	
Learning outcome	The learner will:	
be able to make-ready auto-fed sewing machinery		
Assessment criteria		
The learner can:		
	obtain and check the job specification	
_	identify and obtain the materials required for the job	
	S	
_	ng machine, so that:	
	locates the centre of each section e fed squarely and without damage into the chine	
□ sewing pos trim size	sitions are spaced across spines within the finished	
sewing hol	ds sections securely without damage or distortion	
	blocks are delivered without damage	
_	times can be met	
-	ensure the output meets the job specifications and company quality standard prior to full production	
1.6 obtain an appro	oved sample of the product being produced.	

Lear	ning outcome	The learner will:	
2. b	2. be able to manage output from auto-fed sewing machinery		
Asse	ssment criteria		
The	learner can:		
2.1		r production machines at the optimum speed, downtime and to the required quality standard	
2.2	carry out checks in line with company procedures that the output matches the job requirements		
2.3	run the required number of good copies, keeping spoiled material to a minimum		
2.4	follow the comp	pany procedures for the removal of waste	
2.5	record the prod	uction and quality assurance details following dures	
2.6	-	ut is prepared for the next stage in the process, in company procedures.	

Learr	ning outcome	The learner will:	
3. k	now how to man	age auto-fed sewing machinery	
Asses	Assessment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differenmachinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	imise productivity	
3.3	-	ms that can occur when managing production probable causes and possible solutions for em that could:	
	☐ affect the qu	uality of the image	
	□ reduce the	rate of output	
	affect Healt	h and Safety	
3.4	how to liaise wi	dentify maintenance schedules and needs and th relevant colleagues to ensure output is ne required standard and rate	
3.5		d when to make adjustments to the machine eve the required job specification and quality	
3.6		e parts that may require replacing and explain the on the availability and replacement of these	
3.7	scheduling	pany administrative procedures, for example:	
	_	nd reporting	
	product lab		
	reporting fa	ults and production downtime	
3.8	•	hods available for giving clear instructions to rding their responsibility in the operation of the nachinery	
39	explain the chec	ks to make to ensure the instructions have been	

understood and followed.

Learning outcome		The learner will:	
	4. know how to monitor the quality of output from auto-fed sewing machinery		
Asses	ssment criteria		
The l	earner can:		
4.1	explain the com output. To inclu	pany procedures for monitoring the quality of de:	
	☐ frequency		
	□ type of chec	eks	
	viewing cor	nditions	
	quality cont	rol aids/devices	
	acceptable t	colerances/Variation	
4.2	describe the pur	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4	*	ality control aids located on the printed copy to oring of production.	
4.5	describe methodachieved	ds used to monitor the standard of output	
4.6	explain why it is important to clearly identify both good and bad copy on completion of the run		
4.7	describe the company procedures for the removal of waste		
4.8	· · · ·		
	□ machine ma	ake ready	
	□ running spe	· ·	
	□ production		
	downtime i	n production.	

Learning outcome The learner will:

5. be able to monitor the quality of product from auto-fed sewing machinery

Assessment criteria

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for completing production and quality assurance records.

Unit 324 Manage auto-fed sewing machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 325 Manage carton enhancing machinery

UAN:	L/502/8581	
Level:	Level 3	
Credit value:	7	
GLH:	26	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 362.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to be able to manage Carton Enhancing machinery. They will be expected to control the equipment whilst running production jobs and know how to instruct others and monitor the quality of output.	
Learning outcome The learner will:		
be able to make-ready carton enhancing machinery		
Assessment criteria		
The learner can:		
1.1 obtain and check the job specification		
1.2 identify and obtain the materials required for the job		
	king environment is safe for production	
1.4 set the carton enhancing machinery to meet the job specification		
_	sideration, for example: fed squarely and consistently, without damage or	
□ enhanceme material	ents are made in the correct position on the	
marking or		
□ production	times	
1	ensure the output meets the job specifications and company quality standard prior to full production	
	obtain an approved sample of the product being produced.	

Lear	ning outcome	The learner will:	
2. b	2. be able to manage output from carton enhancing machinery		
Asse	ssment criteria		
The	learner can:		
2.1		r production machines at the optimum speed, downtime and to the required quality standard	
2.2	carry out checks in line with company procedures that the output matches the job requirements		
2.3	run the required number of good copies, keeping spoiled material to a minimum		
2.4	follow the comp	pany procedures for the removal of waste	
2.5	record the prod company proce	uction and quality assurance details following dures	
2.6		out is prepared for the next stage in the process, in company procedures.	

Learr	ning outcome	The learner will:	
3. k	now how to man	age carton enhancing machinery	
Asses	Assessment criteria		
The l	earner can:		
3.1	describe the pri	nciples of the process being managed	
3.2	explain the resp	onsibilities in regards of time and resources:	
	the differenmachinery	t types of resource, including labour, materials,	
	\square the relation	ship between resource usage and profitability	
	□ how to max	imise productivity	
3.3	-	ms that can occur when managing production probable causes and possible solutions for em that could:	
	☐ affect the qu	uality of the image	
	□ reduce the	rate of output	
	affect Healt	h and Safety	
3.4	how to liaise wi	dentify maintenance schedules and needs and th relevant colleagues to ensure output is ne required standard and rate	
3.5		d when to make adjustments to the machine eve the required job specification and quality	
3.6	•	e parts that may require replacing and explain the on the availability and replacement of these	
3.7	scheduling	pany administrative procedures, for example:	
	\square recording a	nd reporting	
	product lab	elling	
	reporting fa	ults and production downtime	
3.8	•	hods available for giving clear instructions to rding their responsibility in the operation of the nachinery	
39	explain the chec	ks to make to ensure the instructions have been	

understood and followed.

Learning outcome		The learner will:	
	4. know how to monitor the quality of output from carton enhancing machines		
Asse	ssment criteria		
The l	earner can:		
4.1	4.1 explain the company procedures for monitoring the quality of output. To include:		
	☐ frequency		
	□ type of chec	cks	
	viewing cor	nditions	
	quality cont	rol aids/devices	
	□ acceptable	tolerances/variation	
4.2	describe the pu	rpose of achieving an approved copy	
4.3	identify the items on the product to be monitored during production output		
4.4		ality control aids located on the printed copy to oring of production.	
4.5	describe metho	ds used to monitor the standard of output	
4.6	explain why it is copy on comple	s important to clearly identify both good and bad tion of the run	
4.7		npany procedures for the removal of waste	
4.8	explain the reas	on for maintaining performance records, for	
	example:		
	machine ma	akeready	
	\Box running spe	eeds	
	\square production	time	
	downtime i	n production.	

Learning outcome The learner will:

5. be able to monitor the quality of product from carton enhancing machinery

Assessment criteria

- 5.1 operate the machine at the required production speeds maintaining quality of output
- 5.2 use recognised quality control methods to check output against the approved sample
- 5.3 produce the required number of good copies to meet customer/company requirements
- 5.4 identify the product which has met the approved standards
- 5.5 follow company and legal procedures to identify and remove waste
- 5.6 follow company procedures for completing production and quality assurance records.

Unit 325 Manage carton enhancing machinery

Supporting information

Guidance

AC3.3 – Candidates must describe at least **three** problems that can occur, their causes and possible solutions.

AC3.6 – Candidates must identify at least **three** machine parts that may need replacing, the company policy on availability and replacement of these.

AC4.5 – Candidates must describe at least **three** methods used to monitor the standard of output achieved.

Unit 326 Design and produce creative digital colour artwork for print

UAN:	A/502/8558	
Level:	Level 3	
Credit value:	7	
GLH:	28	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 711.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to be able to create digital colour artwork for printing using software such as desk top publishing, word processing, electronic page assembly or graphics illustration. The unit requires working to instructions to produce artwork that is correctly set and configured for printing to correct standards. It requires the use of text and images to create artwork that is fit for purpose.	

Learning outcome		The learner will:	
1. be able to agree a design specification for digital artwork for print			
Assessment criteria			
The learner can:			
	1.1 establish from the customer and any other appropriate person(s) the proposed specification for the artwork		
	establish the creative or stylistic needs for the artwork in order to satisfy its intended audience, use and/or application		
iden	3 propose a design specification that meets the requirements identified, including those relating to print production and printed product use		
	amend proposals in response to any comments from the customer ensuring it meets customer requirements		
U	agree realistic timescales with the customer for the production of the artwork		
		ds of the agreed design and product specifications with company guidelines.	

Learning outcome The learner will:

2. be able to produce creative digital colour artwork

Assessment criteria

The learner can:

- 2.1 identify the sequence of tasks that will be required to produce the artwork
- 2.2 identify and/or locate digital files that will be used in production of the artwork, including any text, database, spreadsheet or image files
- 2.3 identify other source material that will be required, such as photography, scanning or copy-writing
- 2.4 ensure tasks which require input from colleagues or external sources are coordinated in order to meet the agreed timescale for production
- 2.5 confirm that digital files for use in the artwork are in a suitable format and convert or use appropriate import filters to bring the files into the artwork layout software, retaining original formatting
- 2.6 identify the software applications suitable to carry out the tasks
- 2.7 produce creative colour artwork that meets the agreed design specification
- 2.8 format typographical elements within the job
- 2.9 make sure that charts or tables are formatted in accordance with job requirements
- 2.10 make sure that line-art or bitmap images are of sufficient quality for the document use having the correct resolution and colour space
- 2.11 make sure that all the colours used in the document are consistent with the intended printing method
- 2.12 save the digital files securely using an archiving/indexing system
- 2.13 submit an approved colour proof to the customer.

Learning outcome The learner will:

3. be able to amend digital colour artwork as required to meet customer and product specification

Assessment criteria

- 3.1 assess the extent of corrections, amendments and stylistic changes made by the customer to ensure they can be achieved
- 3.2 interpret typographic corrections indicated by readers and copy preparation marks
- 3.3 seek clarification or advice from the customer where requirements are unclear or unable to be effected
- 3.4 label and archive digital files in accordance with company procedures after amendments have been made
- 3.5 submit the finished digital artwork for printing in the format required by the prepress/printer.

Learning outcome		The learner will:			
	know how to design and produce creative digital colour artwork for print				
Asses	Assessment criteria				
The le	earner can:				
4.1					
4.2					
	□ computer s	ystem security and virus protection			
	-	ime-sensitive or restricted release dates			
	☐ high value r	products or print with a high risk of theft			
		ns of archiving digital and conventional artwork			
4.3	identify the reas	sons for selecting one printing process over effects on artwork production.			
4.4		ects on a company/department of not managing			
		ces carefully during production			
4.5		of hardware and software used to produce at and the limiting factors.			
4.6	interpret the ter	minology used within typography, artwork and			
	design to includ	e:			
	\Box fonts				
	\square proof				
	□ layout				
	specificatio	n			
	\square imposition				
4.7		ital artwork and design can be affected by: original material, eg photographers and graphic			
	artists				
	colour theo	ry			
	\square the relation	ship between image size, file size and resolution			
	file formats	for digital images			
	page layout				
	limitations	of the output device for print			
4.8	identify the mai	n choices of colour mode for use in Digital			
	printing				
4.9	-	can be taken to reduce the risk of unexpected			
		veen screen colour and printed colour			
	explain the tern	_			
4.11	explain the mea	ning of the following terms:			
	\square trapping				
	knockout				
	overprint				
4.12	state how to dea	al with digital files in relation to the following:			
	dealing with	n embedded information			
	☐ file manage	ment			
	☐ file convers	ion techniques			
		ssion of digital files			
4.13		npany administrative procedures to include:			

	□ planning
	□ scheduling
	recording and reporting
	□ product labelling
4.14	identify the key items which should be considered when monitoring quality during artwork production
4.15	describe the range of proofs in use and their role in the printing process and the limiting factors and list the sequence of proof verification
4.16	explain the type of information to provide to a customer in respect of limitations of a proof supplied and why this is important
4.17	describe the advantages of using low resolution PDF files as proofs
4.18	explain why it is important to get auditable approval from a customer before handing the job over to further stages of production
4.19	explain why it is important customers are made aware of any additional costs likely to be incurred as a result of changes outside the original contract and explain when and how this should be done in line with organisational procedures
4.20	explain the organisational procedures for making corrections or amendments required by a customer.

Unit 326 Design and produce creative digital colour artwork for print

Supporting information

Guidance

AC4.9 – Candidates must state at least two steps that can be taken to reduce the risk of unexpected differenced between screen colour and printed colour.

Unit 327 Plan and produce edited images

UAN:	M/502/8511	
Level:	Level 3	
Credit value:	4	
GLH:	15	
Relationship to NOS:	This unit is linked to Proskills NOS Unit 127.	
Endorsement by a sector or regulatory body:	This unit is endorsed by Proskills	
Aim:	The aim of this unit is to provide the learner with the knowledge and skills to edit digital images. It covers the process of retrieving, editing, converting and archiving for production output.	
Learning outcome	The learner will:	
1. be able to decide of	on the imaging approach	
Assessment criteria		
 The learner can: ensure all elements of the job are available, eg photos (digital or original) select the hardware and software most suitable for the editing they intend to carry out check the compatibility of the elements to be combined in the editing process and decide how to treat any elements that are no compatible. 		
Learning outcome	The learner will:	
2. be able to produce	e edited images	
Assessment criteria		
The learner can:		
 2.1 import the required image elements into the editing software 2.2 produce edited images to suit the requirements of the job 2.3 produce edited images which are accurate in terms of the following: physical size file size content sharpness 		
□ brightness (exposure)		

	□ contrast
	□ colour space — RGB, CMYK and greyscale
	□ output resolution
2.4	check the content and quality of the edited images against customer requirements and workplace standards
2.5	take action to make customer amendments
2.6	maintain the confidentiality of customer material
2.7	save the edited image data files in the required / appropriate format.

Learning outcome		The learner will:		
3. know how to plan and produce edited images				
Asses	Assessment criteria			
The l	earner can:			
3.1	-	derstanding of the law as it affects printing in		
	relation to:			
		nd ownership of Images		
	□ obscenity			
2.2	☐ forgery	signal Inguing valorient in printing		
3.2 3.3		nical Issues relevant in printing		
3.3	describe how to ensure the safe handling of customer material as required by their company			
3.4	state the require	ements for Security & Storage within their		
	company for:			
	= =	products or print with a high risk of theft		
		ns of archiving digital and conventional prints		
3.5	1 1	procedures for communicating with customers		
3.6	6 describe workplace policy and practice in relation to the following:			
	□ standards			
	procedures			
3.7	describe the operation of image editing equipment and software			
3.8	3.8 describe the key factors which affect digital imaging, to include:			
	sources of c artists	original material, eg photographers and graphics		
		ry, eg: additive and subtractive systems such as MYK; colour gamuts		
	compatibili	ty in digital images		
	\square the relation	ship between image size, file size and resolution		
		for digital images - the differences between them sons for using them		
3.9	describe how to	deal with digital files in relation to the following:		
	☐ file convers	ion techniques		
	☐ file compre	ssion and decompression systems		
	☐ file manage	ment		



Appendix 1 Relationships to other qualifications

Links to other qualifications

Centres are responsible for checking the different requirements of all qualifications they are delivering and ensuring that candidates meet requirements of all units/qualifications.

Th	ese qual	lifications	have o	connect	tions	to t	he:
	Level 3	NVQ in Pi	rinting	g (5158	3)		

Literacy, language, numeracy and ICT skills development

These qualifications can develop skills that can be used in the following qualifications:

□ Functional Skills (England) – see
 www.cityandguilds.com/functionalskills
 □ Essential Skills (Northern Ireland) – see
 www.cityandguilds.com/essentialskillsni
 □ Essential Skills Wales – see www.cityandguilds.com/esw



Appendix 2 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the **Centres and Training Providers homepage** on **www.cityandguilds.com**.

Centre manual - Supporting Customer Excellence contains detailed

info	ormation about the processes which must be followed and
	uirements which must be met for a centre to achieve 'approved
-	tre' status, or to offer a particular qualification, as well as updates
	I good practice exemplars for City & Guilds assessment and policy
	ies. Specifically, the document includes sections on:
	The centre and qualification approval process
	Assessment, internal quality assurance and examination roles at the
	centre
	Registration and certification of candidates
	Non-compliance
	Complaints and appeals
	Equal opportunities
	data protection
	Management systems
	Maintaining records
	Assessment
	Internal quality assurance
	External quality assurance.
	r Quality Assurance Requirements encompasses all of the relevant
req	uirements of key regulatory documents such as:
	SQA Awarding Body Criteria (2007)
	NVQ Code of Practice (2006)
and	l sets out the criteria that centres should adhere to pre and post

Access to Assessment & Qualifications provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

centre and qualification approval.

Tl	The centre homepage section of the City & Guilds website also contains			
us	seful information such on such things as:			
	Walled Garden: how to register and certificate candidates on line			
	Events: dates and information on the latest Centre events			
	Online assessment: how to register for e-assessments.			

Useful contacts

UK learners General qualification information International learners General qualification information Centres Exam entries, Certificates, Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results	T: +44 (0)844 543 0033 E: learnersupport@cityandguilds.com T: +44 (0)844 543 0033 F: +44 (0)20 7294 2413 E: intcg@cityandguilds.com T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: centresupport@cityandguilds.com
Single subject qualifications Exam entries, Results, Certification, Missing or late exam materials, Incorrect exam papers, Forms request (BB, results entry), Exam date and time change	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 F: +44 (0)20 7294 2404 (BB forms) E: singlesubjects@cityandguilds.com
International awards Results, Entries, Enrolments, Invoices, Missing or late exam materials, Nominal roll reports	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: intops@cityandguilds.com
Walled Garden Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413 E: walledgarden@cityandguilds.com
Employer Employer solutions, Mapping, Accreditation, Development Skills, Consultancy	T: +44 (0)121 503 8993 E: business@cityandguilds.com
Publications Logbooks, Centre documents, Forms, Free literature	T: +44 (0)844 543 0000 F: +44 (0)20 7294 2413

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About City & Guilds

As the UK's leading vocational education organisation, City & Guilds is leading the talent revolution by inspiring people to unlock their potential and develop their skills. We offer over 500 qualifications across 28 industries through 8500 centres worldwide and award around two million certificates every year. City & Guilds is recognised and respected by employers across the world as a sign of quality and exceptional training.

City & Guilds Group

The City & Guilds Group operates from three major hubs: London (servicing Europe, the Caribbean and Americas), Johannesburg (servicing Africa), and Singapore (servicing Asia, Australia and New Zealand). The Group also includes the Institute of Leadership & Management (management and leadership qualifications), City & Guilds Land Based Services (land-based qualifications), the Centre for Skills Development (CSD works to improve the policy and practice of vocational education and training worldwide) and Learning Assistant (an online e-portfolio).

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