

# **Assessment Pack**

# Entry Level 3 Certificate, Diploma in Body and Paint Maintenance and Entry Level 3 Diploma in General Vehicle Maintenance

Assessment Recording

Qualification 3902 – 02/03 Entry Level 3

SCQF Level 3 Certificate, Diploma in Introduction to Vehicle Body and Paint Maintenance and SCQF Level 3 Diploma in Introduction to General Vehicle Maintenance

Assessment Recording

Qualification 3902 – 72/73 Level 3

# 3902 Entry Level 3 & SCQF Level 3 Candidate unit tracking assessment and verification page





Qualification:			Name of Asse	essor:		
Candidate name:			Planned comp	oletion date:	/	/
City & Guilds registration number:			Name of IV:	-		
City & Guilds registration date:	/ /		Date qualifica	tion completed:	1	/
Centre enrolment date: /	1	_	Date qualifica	tion claimed:	/	<u> </u>
Unit number and title		ate unit ompleted	Unit number and title	9		Date unit completed
(Unit 013/SCQF Unit 313): Basics of vehicle fitting	body		(Unit 018/SCQF Unit 3 preparation technique	,	o vehicle panel	
(Unit 014/SCQF Unit 314): Basics of Vehicle Mechanical, Electrical and Trim Fittings (ME			(Unit 020/SCQF Unit 3 to vehicles using spra		f paint materials	
(Unit 015/SCQF Unit 315): Fundamental vel body repair techniques.	hicle		(Unit 021/SCQF Unit 3 materials for spray gu	,	on coat	
(Unit 016/SCQF Unit 316) Introduction to ve MAG welding techniques	ehicle		(Unit 022/SCQF Unit 3 tolerance vehicle body		single	
(Unit 017/SCQF Unit 317): Introduction to veresistance spot welding techniques	ehicle		(Unit 023/SCQF Unit 3 for foundation coat mand techniques			
Declaration of competence:						
I confirm that the candidate com	npleted th	e work fo	or this qualification	on to the requi	ired standard	l <b>.</b>
Signed (assessor):		D	Date//			
Quality assurance sampling						
Internal verifier name	Units samp	pled IV	report reference	IV Signature an	d date (if sampl	ed)
External verifier name	Units samp	pled EV	report reference	EV Signature a	nd date (if samp	led)

# **About this qualification:**

The 3902 Entry Level 3/SCQF Level 3 qualification consists of ten competence based units which can be completed as stand alone units or as a complete qualification made up of a combination of units.

The aim of the qualification is to introduce learners to the skills required to complete preliminary body panel repairs and to prepare body panels for foundation coats.

#### Rules of combination

3902 -02

Entry Level 3 Certificate in Vehicle Body & Paint Maintenance – Accreditation Number (QAN): 501/1105/X Full Rules of Combination – (906) Certification Module – Minimum 24 credits from (010, 012-023)

Entry Level 3 Diploma in Body & Paint Maintenance – Accreditation Number (QAN): 501/0831/1 Full Rules of Combination – (907) Certification Module – Minimum of 40 credits from (010, 012-023)

3902-03

Entry Level 3 Diploma in General Vehicle Maintenance – Accreditation Number (QAN): 501/1356/2 Full Rules of Combination – Overall minimum of 45 credits from (001-023, 101-109, 112) at least minimum 24 credits from (001-023)

## **SCQF**

3902 -72

SCQF Level 3 Certificate in Vehicle Body and Paint Maintenance

Full Rules of Combination – (914) Certification Module – Minimum 24 credits from (310, 312-318 and 320-323)

SCQF Level 3 Diploma in Body and Paint Maintenance

Full Rules of Combination – (915) Certification Module – Minimum of 40 credits from (310, 312-318 and 320-323)

3902-73

SCQF Level 3 Diploma in Introduction to General Vehicle Maintenance

Full Rules of Combination – Overall minimum of 45 credits from (301-318, 320-323) and (401-409, 412) at least a minimum of 24 credits from (301-323)

# The vehicle types

The units are flexible and are designed in a way to support all types of vehicles; evidence can come from one type or a mixture of different vehicle types, examples include:

Light vehicle
Heavy vehicles
Motorcycles and scooters
Quad and land-based
Tractors

#### **Assessment**

The vehicles used for assessment should be constructed using methods and materials that reflect current technology. Part vehicles, components and realistic vehicle rigs may also be used for training and assessment.

# **Tools and equipment**

Centres must have the tools, equipment, vehicle and units required for the qualification. They should be in a safe and suitable condition to support learning and assessment.

## Evidence submitted for assessment and verification

All units have a one page assessment document that states the skills and knowledge requirements. Assessment should be completed by a competent assessor. Knowledge can be assessed using the prepared questions (centre devised questions may also be used to suit local circumstances) either orally or in written form. A record of the candidate's response to the knowledge questions must be kept and made available for verification.

Evidence may also be recorded using photographic or digital methods provided it is readily available and easily audited.

# 3902 Unit 013/SCQF Unit 313: Basics of vehicle body fitting



Candidate name:	Assessor name		ate assessment completed//	
Candidates need to be observed by their assessor ranswer questions related to these tasks, a record of			poody components. They are also required to correctly mponents have been assessed.	
Bonnet	Door	Tailgate	Bolt on wing	
Vehicle details and relevant information:				
Vehicle make		Vehicle model		
Type of body		Number of doors		
Assessment record:				
Assessor to indicate (✓) when correct use demo	nstrated and or knowledge conf	irmed		
Be able to follow approved safety procedures wi	nen removing and refitting detac	hable vehicle body <b>լ</b>	panels.	
Correctly use required PPE	Follow approved workplac	e procedures	Identify potential H&S hazards and risks	
Identify relevant information sources	State the importance of kee	eping records	Recycling and disposal	
Be able to carry out the removal and replacemen	nt of detachable vehicle body co	mponents.		
Identify the correct hand tools and check they are fit for purpose	Correctly us	e hand tools	Identify vehicle body panels using correct terminology	
Correctly align detachable vehicle body components	Identify different types	of fasteners	Securely fix detachable vehicle body components	
Follow prescribed quality check	s to ensure correct alignment and	secure fixing	•	

Assessors to select suitable 'component' based on assessment circumstances. Answers to questions should be available for verification.

- 1. Why is it important to protect the surrounding bodywork when removing a 'component'?
- 2. State three checks you should complete before you remove a 'component'?
- 3. What should you do if you identify additional damage to the body when you have removed a 'component'?
- 4. How should a metal 'component' be disposed of?
- 5. Why is it important to use plain and spring washers?

# 3902 Unit 014/ SCQF Unit 314: Basics of Ve

# **Basics of Vehicle Mechanical, Electrical Trim (MET)**

Ci	ty	8	
Gu	ΙİΙ	d	S

Candidate name:	Assessor name	Date a	assessment completed//
Candidates need to be observed by their assesse questions related to these tasks, a record of which			
Bumper front or rear	Rear lamps	Front grille/trim	Road wheel
Vehicle details and relevant information:			
Vehicle make		Vehicle model	
Type of body		Number of doors	
Assessment record:			
Assessor to indicate (✓) when correct use de	monstrated and or knowledge	confirmed	
Be able to follow approved safety procedures	when removing and refitting	MET components.	
Correctly use required PPE	Follow approved	workplace procedures	Identify potential H&S hazards and risks
Identify relevant information sources	State the importa	nnce of keeping records	Recycling and disposal
Be able to remove and replace MET compone	nts.		
Identify the correct hand tools and check they are fit for purpose	C	Correctly use hand tools	Identify different types of vehicle
Identify vehicle MET using correct terminology	Correctly	align MET components	Identify different types of fasteners
Securely fix detachable MET components		nuality checks to ensure nment and secure fixing	
Answers to questions should be available for  1. After raising the car with a trolley jack, what p  2. What should be checked before you remove  3. What type of tool should be used to check the  4. How should a plastic bumper be disposed of  5. What is a nyloc nut used for?	piece of equipment should be place a rear lamp cluster? at the wheel nuts are tightened of		when you are removing the road wheel?

#### Unit 015/SCQF Unit 315: Fundamental vehicle body repair techniques 3902



Candidate name:	Assessor name	Date assessment completed//
	sessor <b>roughing out a small dent</b> and <b>one</b> other task. Indicate (🗸) below which of the components have be	c. They are also required to correctly answer questions related to een assessed.
Roughing out small dent	Repair small dent in metal panel using body filler	Repair small dent in plastic panel using body filler
Vehicle details and relevant information:		
Vehicle make	Vehicle	model
Type of body	Number	r of doors
Assessment record:		
Assessor to indicate (✓) when correct us	e demonstrated and or knowledge confirmed	
Be able to follow approved safety proced	ures when carrying out preliminary vehicle body re	epairs
Correctly use required PPE	Follow approved workplace procedures	Identify potential H&S hazards and risks
Identify relevant information sources	State the importance of keeping records	Recycling and disposal
Be able to carry out body repair techniq	ues	
Identify the correct hand tools and che they are fit for purpo	, , , , , , , , , , , , , , , , , , ,	Identify panel and panel/substrate material
rough out small dents using a variety hand too	of Mix and apply plastic body filler in an	
Follow prescribed quality checks to ensu acceptable profile of repa		
<ul><li>Answers to questions should be availabed.</li><li>What piece of PPE should you use to prodown body filler?</li><li>What condition should a metal body page.</li></ul>	protect your lungs when rubbing 2. What grade of protect your lungs when rubbing from a damage	production paper should you use to remove the paint d steel body panel? er applied to a higher profile than the surrounding

bodywork?

### Assessor feedback:

applying body filler?

filler?

5. Name two hand tools used when roughing out a steel panel prior to

# **3902** Unit 016/ SCQF Unit 316:

# Introduction to vehicle MAG welding techniques



Candidate name:	Assessor name	<b>.</b>	Date assessr	ment completed//
Candidates need to be observed related to these tasks, a record o		plug we	eld in 1 mm mild steel. They a	re also required to correctly answer questions
	Lap weld	AND	Plug weld	
Welding plant details and relev	ant information:		_	1
Wire speed	Wire gauge		Type of gas	Gas pressure
- ,	, ,			consistent form, and have adequate penetration.
Assessment record: Assessor	to indicate (✓) when correct use de	monstra	ited and or knowledge confir	mea
Be able to follow approved safe	ty procedures when using MAG weld	ling equ	ipment	
State the H&S requirements	<b>U</b>	Correctly	y use the required PPE	Follow approved workplace procedures
Identify pote	principles ntial H&S hazards and risksI	dentify tl	he relevant information sources	State he importance of keeping records
	Recycling and disposal			<u> </u>
Be able to produce MAG plug	and lap welds			
Complete effective tacking of m		nplete eff	fective lap welds	Complete effective plug welds
Answers to questions should	be available for verification.			
too high? 5. What condition should the welding)?	you weld too fast (speed of torch travel	2. 4. 6.	hand lap)? State why it is important to us	h angle when MAG welding (down se the correct MAG welding technique?
7. State the purpose of the sh	ielding gas?	8.	Identify two different types dis heat.	stortion caused by the application of

# 3902 Unit 017/SCQF Unit 317: Introduction to vehicle resistance spot welding techniques



Candidate name:	Assessor r	name	Da	ate assessment completed//	
				by completing destructive test and complete three lated to these tasks, a record of which must be kept.	
Set up resistance s	pot welder Complet	e destructive test		Weld three correctly positioned spot welds	,
Welding plant details	and relevant information:				
Squeeze time	Weld time	H	old time	Current	
Be able to follow app	Assessor to indicate (✓) when correct useroved safety procedures when setting up	and using resista	nce spot welding <u>eq</u> ı	<u>ui</u> pment	
State the H&S require	ements relevant to electric welding principles	Correctly	use required PPE	Follow approved workplace procedures	
Identify potent		ntify the relevant in	formation sources	State he importance of keeping records	
Ro able to carry out	resistance spot welds			J	
Set up sp		ance spot welding	equipment	Prepare materials for spot welding	
Answers to question	s should be available for verification.				
<ol> <li>State three has</li> </ol>	azards when resistance spot welding?	2.	What is the purpose		
	ortant to dress the electrodes before welding?			nt metal be prepared before welding?	
the edge of th	to happen if you position the spot weld too cle parent metal?		State two factors wh	ich affect the quality of a resistance spot weld	
<ol> <li>State two met welds</li> </ol>	thods used to test the effectiveness of resista	ince spot 8.	Identify distortion car welding.	used by the application of heat when spot	

#### 3902 Unit 018/SCQF Unit 318: Introduction to vehicle panel preparation techniques

Candidate name:	Assessor name	Date assessment completed//	d		
Candidates need to be observed by their assessor repair. They are also required to correctly answer of		I flatting or by using power tools, and to complete a feather edge ich must be kept.			
Hand flat body panel	Flat body panel using power tools	Feather edge repaired body panel			
Vehicle details and relevant information:					
Vehicle make	Vehicle model	I			
Type of body	Panel prepared				
Assessment record: Assessor to indicate (✓)wh	nen correct use demonstrated and or knowle	edge confirmed			
Be able to follow approved and safe procedures	when preparing vehicle body panels				
Correctly use required PPE	Follow approved workplace proced	edures Identify potential H&S hazards and risks			
Identify the relevant information sources	State the importance of keeping red	ecords Recycling and disposal			
Be able to prepare vehicle body panels					

Identify the correct hand, power tools and equipment and check they are fit for purpose

Correctly use hand and power tools Flat vehicle body panels using power tools Feather edge a repaired body panel

Clean tools and equipment and obtain confirmation that they are left in a clean and serviceable condition

## Answers to questions should be available for verification.

Hand flat vehicle body panels

- 1. State two hazards when hand flatting?
- 2. State two hazards when flatting using power tools?
- 3. What is meant by the term feather edging?
- 4. Identify the types and grades of abrasive materials used for vehicle body panels.
- 5. Identify the types of foundation coat materials used on vehicle body panels.

# 3902 Unit 020/SCQF Unit 320: Application of Paint Materials to Vehicles Using Spray Gun Techniques



Candidate name:	Assessor name	Date assessment completed//
Candidates need to be observed by their asse related to these tasks, a record of which must		chniques. They are also required to correctly answer questions
Apply etch primer	AND Apply primer coat	
Foundation coat details and relevant inform	nation:	
Type of spay gun used	Position of p	anel on vehicle
Shape of panel painted	Panel mater	al painted
	√) when correct use demonstrated and or kno lures when applying foundation coat materials	
Correctly use required PPE	Follow approved workplace procedures	Identify potential H&S hazards and risks
Recycling and disposal	Identify the relevant information sources	State the importance of keeping records
	State the n	eed for fume extraction when applying foundation coat materials
	pared spray gun to apply foundation coat materials	Identify the correct spray gun pattern at they are left in a clean and serviceable condition.

# Answers to questions should be available for verification.

- 1. State two hazards when applying foundation coats?
- 2. State two items of PPE that should be worn when applying foundation coats?
- 3. Why is it necessary to keep the spray gun a regular distance from the panel?
- 4. Why is the correct spray pattern important?
- 5. Why is it important to clean the spray gun thoroughly after use?

# 3902 Unit 021/SCQF Unit 321: Mix foundation coat materials for spray gun application



Candidate name:	Assessor name	Date assessment completed//			
Candidates need to be observed by their assessor preparing a panel for paint coats by using hand flatting or by using power tools, and to complete a feather edge repair. They are also required to correctly answer questions related to these tasks, a record of which must be kept.					
Mix etch primer	AND Mix primer				
Foundation coat details and relevant in	formation:				
Viscosity required	Mixing ratio	used			
Type of foundation coat material	Type of mixing	ng scheme/system used			
	ate (✓) when correct use demonstrated and or knoocedures when mixing foundation coat materials.	wledge confirmed			
Correctly use required PPE	Follow approved workplace procedures	Identify potential H&S hazards and risks			
Recycling and disposal	Identify the relevant information sources	State the importance of keeping records			
	State the importance of controlling paint shop substances which may be hazardous to health				
Be able to mix foundation coat materials.					
	Use pre-selected technical information	on to support the mixing of foundation coat materials			
Use hand tools for mixing foundation c mater	ials foundation coat materials	;			
	Clean tools and equipment and obtain confirmation th	at they are left in a clean and serviceable condition.			

## Answers to questions should be available for verification.

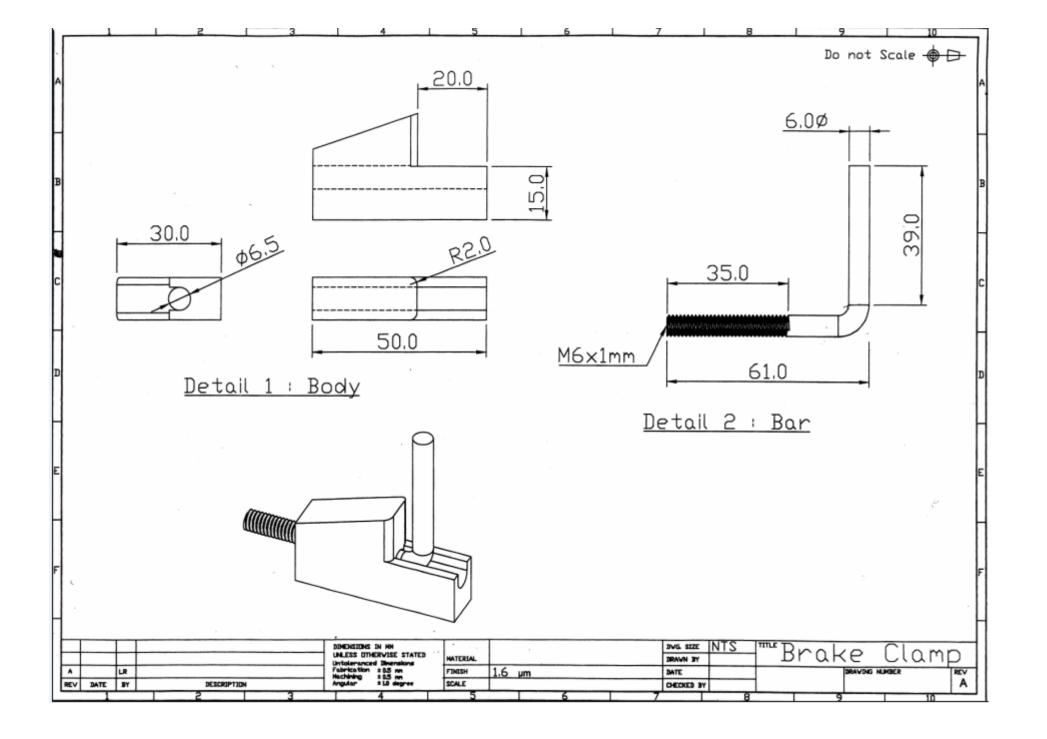
- 1. State two hazards when mixing foundation coats?
- 2. State two items of PPE that should be worn when mixing foundation coats?
- 3. Why is it necessary to mix foundation coat materials?
- 4. What is the purpose of an activator?
- 5. Why is it important to clean mixing equipment after use?

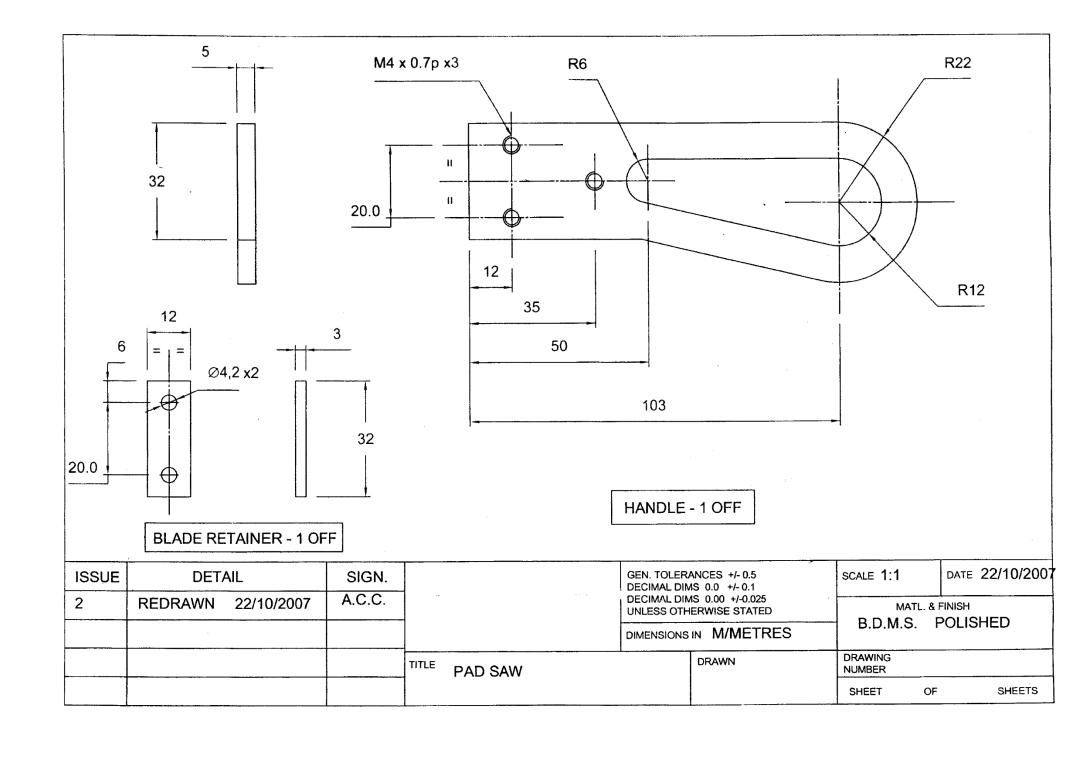
# 3902 Unit 022/SCQF Unit 332: Manufacture single tolerance vehicle body components

Candidate name:	Assessor name	Date assessment completed//			
Candidates need to be observed by their assessor make correctly answer questions related to these tasks, a reconstructions.		erent and techniques each. They are also required to			
Indicate (✓) techniques demonstrated:					
Measuring Marking out Cutting	Fabrication Forming Dri	Iling Thread cutting Filing			
Standard required:  Each piece that is made must have at least one critical or key dimension. Typical tolerances being ± 1mm in sheet metal and ± 0.5mm in preformed sections. Examples of typical tools that can be manufactured as an alternative to body components are on the drawings provided.					
Assessment record: Assessor to indicate (✓) when Be able to follow approved and safe procedures wh		confirmed			
	Use appropriate PPE and methods	Follow approved workplace procedures			
	Identify potential H&S hazards and risks	Identify the relevant information sources			
State how to safely handle and dispose of u	used and waste materials, components and fluids	State the importance of keeping records			
Be able to use tools and equipment to manufactur Identify the workshop hand tools used for the manufacture of vehicle body components Demonstrate a range of techniques  Demonstrate how to check manufactured vehicle body components for compliance	Demonstrate how to check the condition required  Demonstrate how to prepare the tools and education in the condition required the tools and education in the condition required the con	on and operation of the tools and equipment for manufacturing vehicle body components quipment required for manufacturing vehicle body components illustrate the main features of manufactured vehicle body components			

Understand the methods and techniques when manufacturing vehicle body components. Answers to questions should be available for verification.

- 1. Why is it important to work from a datum when marking out?
- 2. Identify the different materials used to manufacture vehicle body components including carbon steels and aluminium alloys
- 3. State typical vehicle body component applications for the materials used
- 4. State how materials are modified to provide strength by forming, alloying and heat treatment
- 5. State the importance of hardness, toughness, rigidity and tensile strength as material properties





4. How to remove masking materials without damaging the vehicle 5. State the importance of timely removal of masking materials

# Unit 023/SCQF Unit 323: Prepare vehicle body panels for foundation coat materials using masking materials and techniques



Candidate name:	Assessor name	Date assessment completed//	
Candidates need to be observed by their assessor preparing a panel for masking materials, applying and removing masking materials. They are also required to correctly answer questions related to these tasks, a record of which must be kept.			
Use masking paper	OR use plastic masking sheet/film	AND Use masking tape	
Vehicle details and relevant information:			
Vehicle make	Vehicle mode		
Type of body	Panel prepare	d	
Assessment record: Assessor to indicate (✓) when correct use demonstrated and or knowledge confirmed Be able to follow approved and safe procedures when applying masking methods.			
Correctly use required PPE	Follow approved workplace proce	dures Identify potential H&S hazards and risks	
Identify the relevant information sources	State the importance of keeping re		
Be able to use masking materials and techniques to prepare vehicle body panels for foundation coats			
Remove masking materials aft Use suitable masking materials to mask up ve		Mask vehicle parts and components	
<ul> <li>Understand the methods and techniques when masking up vehicle panels components Answers to questions should be available for verification.</li> <li>1. List the materials used to mask vehicle parts and components</li> <li>2. State the importance of accurate application of masking materials</li> <li>3. State the importance of using the correct masking material for the application</li> </ul>			