Guidance for producing centre devised tasks for 2675-03



Qualification title:	Qualification number:
Level 3 Diploma in Aircraft Maintenance (Civil Aircraft Mechanical)	2675-03

Guidance relating to all centre devised units for this qualification

The following guidance applies to all of the centre devised units listed. Where individual units require specific guidance, this is provided in the next section; Unit specific guidance.

Generic guidance for units: 204-207, 216-217

Task Setting:

Each task will consist of:

- planning and preparation
- execution of the activity
- inspection of the finished work
- recording and reporting on the completed task.

Specific guidance for each unit is given below.

In order to ensure all the knowledge requirements are covered, additional questions may need to be completed by the candidate. These should be treated as a separate assessment task and the standard forms used (ie fronted by GF2/3 if written of GF1 or alternative if oral)

Forms of Evidence:

It is expected that the following forms of evidence will be produced for these units:

- candidate reports (fronted by GF2/3) and discussions with assessor (recorded on GF1)
- inspection report forms including marked up diagrams (centre devised form or GF1)
- written reports to include planning of the tasks, annotated illustrations of the process (e.g. drawings, photographs). (Any illustrations must clearly state what the candidate is doing/did) and completed job cards and/or inspection report (fronted by GF2/3)
- photographic evidence or actual work pieces (fronted by GF2/3).

All candidate produced material should be fronted by GF2/3 and any evidence recorded by the assessor should be on GF1 or where appropriate a centre devised alternative, or media recording. Audio or video recordings must be securely saved as evidence, clearly identified as relating to the candidate in question and accessible to the I&EV)

Conditions:

Practical tasks

The practical tasks must take place in an appropriately equipped area in the centre, this may be an on site aircraft hangar if available or other similar area.

Underpinning knowledge questions

If short answer underpinning knowledge questions are to be used, these must be taken under supervised conditions as closed-book tests and must not be completed as homework.

This means that all the activities will be completed with the assessor, or other designated supervisor, present. Strict exam regulations (eg JCQ ICE) do not apply; it is envisaged that most candidates will take the short answer questions in their normal learning environment with their own tutor present. Alternatively, assessors may ask the questions orally and record individual candidate's responses on the assignment evidence recording form.

Marking and grading

Grading criteria to be applied to these units:

Please refer to the Generic Grading Criteria (GM2) for the detailed descriptors for pass, merit and distinction. The following descriptors apply to these units.

PT (Performance of techniques, methods/skills) – these descriptors will apply to any tasks where candidates are carrying out practical activities **AKU** (Practical application of knowledge and understanding) – these will apply where candidates may be demonstrating some of the knowledge and understanding outcomes through practical activities or planning to carry out practical activities.

U (Understanding): these will apply where candidates are being asked specific questions to show their understanding eg through oral or short answer questions.

K (Knowledge): these will apply where candidates are being asked specific questions to show their understanding eg through oral or short answer questions.

The assessment grading criteria grid (AD2) must be completed in all cases. All tasks should be weighted equally.

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Unit specific guidance

This guidance relates to the individual unit only and is in addition to any generic guidance specified for it above.

204	Title: Structural Materials and Components in Aircraft	Graded: Pass/Merit/Distinction	Sample assessment: N/A	
	Task Setting: The equipment to be worked on during the assignment must include one item from each of the following:			
	an actual or simulated airframe structure			
	representative aircraft material of sufficient size to demonstrate the techniques of using a range of aircraft fasteners and locking devices.			
	Appropriate practical tasks to cover learning outcomes 4 and 7 will include:			
	assessing defects including corrosion in ferrous and non-ferrous structures			
	repairing a corroded structure			
	using a range of aircraft fasteners and locking devices to assemble and secure components.			
	Learning outcomes 1, 2, 3, 5, 6 and 8 contain knowledge and understanding assessment criteria. It must be clear in the assignment composition grid and the evidence, that the candidate has covered all of the knowledge requirements. Some of these assessment criteria will be covered			
	naturally through candidate reports etc, however it may be necessary to ask the candidate additional questions.			



Unit	nit Unit details			
205	Title: Maintaining Aircraft Structures	Graded: Pass/Merit/Distinction	Sample assessment: Yes.	
	Task Setting:			
	The equipment to be worked on during the assignment must include the following:			
	an actual or simulated airframe structure			
	 representative aircraft material of sufficient size to demonstrate the techniques of structural maintenance tools and equipment suitable for the given task. 			
	Appropriate tasks will include:			
	 producing a report on the emergency procedures in the aircraft maintenance environment. Assessors will need to ensure that candidates given the opportunity to show their understanding of health and safety legislation that applies to their working environment. This task coutake place at any point during the learning of this unit. Candidates may produce a written report or give their assessor a 'walk through' of procedures. classifying and carrying out routine inspections of airframe structures (three to be classified including at least one damaged structure eg. corrosion) 			
	 removing and fitting typical airframe components. Typical concowling 	nponents to be repaired at this level will inclu	de a control surface or an engine	
	 repairing a section of an airframe structure e.g. Control surfactivems of structure and skin or a significantly curved skin surfactivement. 		s task must include at least two	
	Learning outcomes 1, 2, 3, 4, 5 and 8 contain knowledge and unders grid and the evidence, that the candidate has covered all of the known naturally through candidate reports etc, however it may be necessary	ledge requirements. Some of these assessm		
	A sample assignment has been produced for this unit.			



Title: Maintainin	g Aircraft Mechanical Systems	Graded: Pass/Merit/Distinction	Sample assessment: N/A
Task Setting:			
The equipment to	be worked on in each task during the assign	gnment will include one item from group A and o	ne item from group B:
a. Me	echanical systems for example:		
	i. Main/nose wheel assembly		
	i. Brake pack		
ii	 Nose wheel steering components 		
iv	•		
,	. Locking mechanism		
V	i. Torque link		
Vi	 Fixed-wing flying controls 		
vii	i. Hydraulic system components		
i	 Oxygen and air system components 		
	. Fuel system components		
b. Ec	uipment and furnishings for example:		
	i. Seats		
i	i. Harness assemblies		
ii	i. Galley unit		
iv	. Toilet unit		
,	c. Cabin partitions		
V	i. Cabin trim		
Vi	i. Entertainment modules		
vii	i. Aircraft role equipment		
Appropriate tasks			
For Outcome 10.			
 lubrication 			
 replenishr 			
 inspection 			

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• measurement of parameters such as range of movement, rigging etc.

For Outcome 10.2

- removing and fitting typical mechanical system components
- inspecting and fitting typical equipment and furnishings

Learning outcomes 1 - 9 contain knowledge and understanding assessment criteria. It must be clear in the assignment composition grid and the evidence, that the candidate has covered all of the knowledge requirements. Some of these assessment criteria will be covered naturally through candidate reports etc, however it may be necessary to ask the candidate additional questions.



Unit	Unit details		
207	Title: Maintaining Gas Turbine Engines and Propellers	Graded: Pass/Merit/Distinction	Sample assessment:
	Task Setting:		
	The equipment to be worked on during the assignment must include one item from each of the following: • An aircraft gas turbine engine - on or off the aircraft		
	 Auxiliary items such as gearboxes, pumps etc. 		
	 Appropriate tasks will include: routine maintenance activities such as replenishment, lubrication and filter changes removing and fitting components inspection and reporting of component condition (e.g. a borescope inspection of turbine blades) Learning outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9.1-3 and 9.5-7 contain knowledge and understanding assessment criteria. It must be clear in the assignment composition grid and the evidence, that the candidate has covered all of the knowledge requirements. Some of these assessment criteria will be covered naturally through candidate reports etc, however it may be necessary to ask the candidate additional questions.		



Unit	Unit details		
216	Title: Maintaining Gas Turbine Engines and Rotors	Graded: Pass/Merit/Distinction	Sample assessment:
	Task Setting:		•
	The equipment to be worked on during the assignment must include	one item from each of the following:	
	 An aircraft gas turbine engine - on or off the aircraft 		
	 Auxiliary items such as gearboxes, pumps etc 		
	Rotor head and blade(s) or tail rotor - on or off the aircraft.		
	Appropriate tasks will include:		
	 Routine maintenance activities such as replenishment, lubrication 	and filter changes	
	 Removing and fitting components 		
	Inspection and reporting of component condition (eg: borescope inspection of turbine blades, condition report on rotor blades)		on rotor blades)
	Learning outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9.1-3 and 9.5-7 contain knowledge composition grid and the evidence, that the candidate has covered a covered naturally through candidate reports etc, however it may be not covered.	l of the knowledge requirements. Some of t	hese assessment criteria will be



Unit	Unit details			
217	Title: Maintaining Rotary Wing Mechanical Systems	Graded: Pass/Merit/Distinction	Sample assessment:	
•	Task Setting:			
	The equipment to be worked on during the assignment must include one item from each of the following:			
	An aircraft undercarriage (on or off the aircraft)			
	Items of aircraft fixtures, trim, seats etc. (on or off the aircraft).			
	Appropriate tasks will include:			
	typical maintenance activities such as removing and fitting undercarriage components			
	inspection and reporting condition of items of aircraft furnishings and trim			
	removing or fitting of items of furnishings and trim.			
	Learning outcomes 1, 2, 3, 4, 6, 7, 8 and 9.1-5 contain knowledge and understanding assessment criteria. It must be clear in the assignment composition grid and the evidence, that the candidate has covered all of the knowledge requirements. Some of these assessment criteria will be			
	covered naturally through candidate reports etc, however it ma	<u> </u>		