SFJ ZI10 Test and repair technical support systems and equipment



Overview

This unit is about testing and repairing software and electronic, electrical and mechanical systems and equipment.

There are two elements

- 1. Assess the status and performance of systems and equipment
- 2. Repair and restore systems and equipment

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Performance		
criteria	Asse	ess the status and performance of systems and equipment
You must be able to:	P1	obtain and assess relevant information on the performance of systems and equipment
	P2	carry out tests on the systems and equipment
	P3	record results obtained during test routines
	P4	identify issues with the systems and equipment, and report as necessary
	P5	place systems and equipment in the designated location for repair or disposal in accordance with local policy
	Repa	air and restore systems and equipment
You must be able to:	P6	identify and obtain the right type, quantity and quality of resource to be used in the repair
	P7	prepare the systems and equipment for repair
	P8	repair the systems and equipment to meet its original specification, within an economic timescale, making effective use of the resources available when possible
	P9	report to, and clear with, relevant personnel variations needed to achieve the specification
	P10	where necessary, organise repairs by external organisations
		maintain a record of repairs
		adhere to health and safety procedures throughout the repair

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Knowledge and understanding	_egal and organisational requirements
	(1 your responsibilities under current legislation and regulations and the
You need to know and understand:	implications of non-compliance
	the manufacturers' instructions for the safe and correct use and repair systems and equipment
	Festing and repairing systems and equipment
You need to know and understand:	K3 how the systems and equipment operate and the capabilities of system and equipment
	K4 how to identify and apply the necessary test routines and record the results
	45 usual and unusual problems with systems and equipment
	K6 reporting and recording procedures
	K7 how to use test equipment correctly
	K8 how to prepare systems and equipment for repair
	k9 how to assess the resource needed for the repair
	K10 how to interpret technical specifications
	K11 safety requirements for specific systems and equipment
	K12 how to repair systems and equipment
	K13 how to deal with variations
	K14 how to restore systems and equipment
	K15 how to confirm operational effectiveness of systems and equipment
	K16 how to organise and check repairs by external organisations
	Principles and theories
You need to know and understand:	K17 the principles of electricity
	K18 electronic theory and how it applies to the equipment being reviewed

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Scope/range	Assess the status and performance of systems and equipment			
related to	Assess the status and performance of systems and equipment			
performance criteria	 systems and equipment 1.1. electronic 1.2. electrical 1.3. mechanical 			
	1.4. software			
	2 test methods 2.1. visual			
	2.2. physical			
	2.3. diagnostics			
	Repair and restore systems and equipment			
	3 systems and equipment			
	3.1. electronic			
	3.2. electrical			
	3.3. mechanical			
	3.4. software			
	4 repairs			
	4.1. replacement			
	4.2. adjustment			
	4.3. temporary			
	4.4. permanent			
	5 variations			

- 5.1. time
- 5.2. cost
- 5.3. temporary repair
- 5.4. incomplete repair

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