

PERFORM WORKSHOP PRACTICES

UNIT CODE: ENG/OS/EI/CC/02/4

UNIT DESCRIPTION

This unit covers the competencies required to perform workshop practices. Competencies include applying workshop Safety, use of workshop tools, instruments and equipments, preparation of workshop materials, preparation of workshop for Electrical installation, Storage of Electrical tools and materials, troubleshoot and repair/replace workshop tools and equipment.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function	These are assessable statements which specify the required level of performance for each of the elements. <i>(Bold and italicised terms are elaborated in the Range)</i>
1. Apply workshop safety	1.1 Proper use of PPE is adhered to as per standard operating procedure 1.2 Workshop rules are followed as per standard operating procedure 1.3 Proper use of safety equipments are followed as per the manufacturer's recommendations 1.4 First Aid procedures are adhered to
2. Use workshop tools, Instruments and equipments	2.1 Workshop tools , Instruments and equipments are identified as per required installation 2.2 Tools, Instruments and equipments are used as per the manufacture's manuals 2.3 Proper handling of workshop tools, Instruments and equipments as per standard operating procedure 2.4 Care and Maintenance of workshop tools, Instruments and equipments as per standard operating procedure
3 Prepare workshop tools and instruments for an Electrical installation	3.1 List of required tools and instruments is prepared per the required installation 3.2 Issuing of required tools and instruments is performed as per standard operating procedure 3.3 Functionality of tools and instruments is checked in line with the standard operating procedure 3.4 Calibration of workshop instruments are performed as per the standard operating procedure
4 Store electrical tools and materials	4.1 Tools are checked against the issuing list as standard operating procedures

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These describe the key outcomes which make up workplace function	These are assessable statements which specify the required level of performance for each of the elements. <i>(Bold and italicised terms are elaborated in the Range)</i>
	<p>4.2 Tools are stored as per the standard operating procedure</p> <p>4.3 Tools are cleaned as per the workshop standard operating procedure</p> <p>4.4 Waste materials are disposed as per the EHS</p>
5 Troubleshoot and repair/replace workshop tools and equipment	<p>5.1 Faulty tools are identified as per their expected functionality</p> <p>5.2 Faulty equipment are diagnosed in line with the fault diagnosis procedures</p> <p>5.3 Repair/Replace faulty components as per standard operating procedure</p> <p>5.4 Repaired/Replaced tool and equipment are tested as per the expected functionality</p>

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RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range <i>May include but is not limited to:</i>
1. Workshop tools	1.1 Pliers 1.2 Hacksaws 1.3 Hammer 1.4 Spirit levels 1.5 Phase Tester 1.6 Side cutters
2. Manual	2.1 Operational 2.2 Installation 2.3 Commissioning 2.4 Technical specification /data sheet
3. Parameters	3.1 Light intensity 3.2 Sound 3.3 Speed 3.4 Efficiency 3.5 Temperature 3.6 Electrical quantities e.g. Voltage, current and resistance levels 3.7 Expected output

REQUIRED KNOWLEDGE AND UNDERSTANDING

The individual needs to demonstrate knowledge and understanding of:

1. Organisational and legislative requirements including:	
1.1	The manufacturer's manual about the operation of various workshop tools and instruments
1.2	The legal and statutory requirements relating to electrical Workshop operation activities.
1.3	workplace procedures relevant to: 1.3.1 health and safety; 1.3.2 The environment (including waste disposal); 1.3.3 Appropriate personal and protective equipment; 1.3.4 Appropriate use of service manuals
1.4	Workplace procedures for: 1.4.1 Fault identification and diagnosis

1. Organisational and legislative requirements including:	
	1.4.2 Appropriate use of tools and equipment
	1.4.3 Repairing, modifying or replacing defective parts or components.
	1.4.4 Reporting of technical challenges
1.5	The importance of documenting workshop practical activities and information.
1.6	The importance of working within agreed timelines and sharing progress reports.
1.8	The importance of reporting anticipated delays to relevant parties promptly.
2. The use of technical information including:	
2.1	How to find, interpret and use sources of technical information for workshop practical activities
2.2	The importance of using the correct sources of technical information.
2.3	The purpose of and how to use identification codes.

FOUNDATION SKILLS

The individual needs to demonstrate the following foundation skills:	
<ul style="list-style-type: none"> • Communications (verbal and written); • Proficient in ICT; • Time management; • Analytical • Faults troubleshooting; • Problem solving; • Planning; 	<ul style="list-style-type: none"> • Decision making; • First aid; • Report writing;

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and understanding and range.

<p>1 Critical Aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Adhered to the proper use of PPE 1.2 Observed the workshop rules 1.3 Performed the First Aid procedures in the workshop 1.4 Observed workshop procedures in the storage of tools 1.5 Safely used testing equipment and tools 1.6 Observed EHS in the waste disposal 1.7 Properly demonstrated care and maintenance of workshop tools 1.8 Obtained, recorded and interpreted test results 1.9 Identified faulty tools and instruments 1.10 Repaired/Replaced faulty tools
<p>2 Resource Implications</p>	<p>The following resources must be provided:</p> <ul style="list-style-type: none"> 2.1 Electrical installation tool kit 2.2 Testing equipment 2.3 Measuring equipment 2.4 First Aid kit and <p>Resources the same as that of workplace are advised to be applied</p>
<p>3 Methods of Assessment</p>	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Oral test 3.2 Observation 3.3 Practical demonstration
<p>4 Context of Assessment</p>	<p>Competency may be assessed individually in the actual workplace or through a simulated work place setting</p>
<p>5 Guidance information for assessment</p>	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>