WORKSHOP TECHNOLOGY

UNIT CODE: ENG/CU/EI/CC/02/5

Relationship to Occupational Standards

This unit addresses the unit of competency: Manage an Electrical workshop

Duration of Unit: 60 hours

Unit Description

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

Summary of Learning Outcomes

- 1. Apply workshop safety
- 2. Use of workshop tools, Instruments and equipments
- 3. Prepare workshop tools and instruments for an Electrical installation practical
- 4. Prepare the workshop for an Electrical practical
- 5. Store Electrical tools and materials after practicals
- 6. Troubleshoot and repair workshop tools and equipment

Learning Outcomes, Content and Suggested Assessment Methods:

Learning Outcome	Content	Suggested Assessment	
		Methods	
1. Apply workshop safety	☐ Meaning of PPE	☐ Oral questioning	
	 Standard operating procedure in 	☐ Written tests	
	PPE	☐ Practical test	
	☐ Workshop rules		
	☐ Electrical hazards e.g.		
	Electric shock.		
	☐ Fire		
	 Classes of fire 		
	 Causes of fire 		
	 Various methods of fire 		
	extinguishing		
	☐ First Aid		

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2.	Use of workshop tools,		☐ Meaning of workshop tools, instruments and		Oral questioning
	Instruments and		equipments		Practical tests
	equipments		Classification of workshop tools and		Written tests
			equipments		
			Uses of workshop tools, Instruments and		
			equipments		
			Care and Maintenance of workshop tools		
			and Instruments		
3.	Prepare workshop tools		Tools and instruments for an Electrical		Observation
	and instruments for an		practical		Oral questioning
	Electrical installation		 Preparation of a list of tools and 		Practical tests
	practical		instruments for an Electrical practical.		Written tests
			 Issuing and confirmation of tools and 		
			instruments before and after practical		
			Testing of practical tools and Instruments		
4.	Prepare workshop for an		Practical stations		Observation
	Electrical practical		Interpretation of a list of practical material		Oral questioning
			•		Practical tests
			con		Written tests
5.	Store Electrical tools		Classification of workshop tools and		Observation
	and materials after		instruments.		Oral questioning
	practicals		Storage of workshop Tools and equipment		Practical tests
			Waste disposal		Written tests
6.			Waste Grapesta	•	,, 1100011 00505
0.	Troubleshoot and		1		Observation
0.	repair/replace workshop	1	Meaning of troubleshooting		
0.			Meaning of troubleshooting		Observation
0.	repair/replace workshop		Meaning of troubleshooting Common faults in Electrical equipments		Observation Oral questioning

Suggested Methods of Delivery

- Demonstration by trainer
- Practice by the trainee
- Field trips
- On-job-training
- Discussions

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Recommended Resources

Tools	Materials and supplies
Set of screw drivers	• Stationery
• Pliers	• Cables
Phase testers	 Lubricants
Multimeter	 Service parts
Equipment	Reference materials
PPE –hand gloves, dust coat, dust masks	IEE regulations
Multimeter	 Organizational procedures manual
Clamp meter	
Earth electrode resistance meter	
Phase sequence meter	

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