ELECTRICAL INSTALLATION MAINTENANCE

UNIT CODE: ENG/CU/EIT/CR/06/6/A

Relationship to Occupational Standards

This unit addresses the unit of competency and meets the requirements specified by the Occupational Standards: Maintain Electrical Installation

Duration of Unit: 140 hours

Unit Description

This unit specifies the competencies required to maintain an electrical installation, which includes servicing and scheduled maintenance activities using safe methods.

Summary of Learning Outcomes

- 1. Prepare maintenance schedule
- 2. Inspect electrical installation
- 3. Perform installation servicing
- 4. Conduct installation tests

Learning Outcome Content Suggested **Assessment Methods** 1. Prepare Meaning of terms Observation □ Maintenance □ Written tests maintenance schedule \succ Types and procedures • Oral questioning ➢ Periodic service Practical tests > Preventive ➢ Breakdown ➢ Corrective □ Scheduling maintenance based on service manuals □ Safety precautions to be observed □ Meaning of terms □ Observation 2. Inspect electrical □ Identification and documentation of installation □ Written tests maintenance tools, materials and • Oral questioning □ Practical tests equipment □ Specifications of identified tools, materials and equipment against safety standards

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested
		Assessment Methods
	□ Inspection procedure	
	Recording of inspection findings	
3. Perform installation	Meaning of terms	□ Observation
maintenance	□ Fill in maintenance checklist	□ Written tests
	Performance of maintenance activities	Oral questioning
	and updating of necessary records	Practical tests
	Disposal of waste materials e.g.	
	Old batteries	
	➢ Oils	
	Lugs and screws	
	> Tapes	
	Cable sheaths	
	➢ Off cuts	
4. Conduct system tests	□ Meaning of terms	□ Observation
	□ Identification of test points and	Written tests
	parameters	Oral questioning
	□ Safe test procedures	Practical tests
	Test results documentation	
 Suggested Methods of In Demonstration by Practice by the trai Discussions Projects 	trainer	

Suggested Methods of Instruction

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

Recommended Resources

Tools

- Set of screw drivers
- Set of spanners and wrenches
- Power tools
- Cutting tools
- Pliers

- Lifting and tensioning tools
- Tool box
- Phase tester

Materials and supplies

- □ Stationery
- \Box Cables
- □ Lubricants
- □ Service parts

Reference materials

- □ Service manuals
- □ IEE regulations
- easywet.com □ Organization procedures manual