

ELECTRICAL INSTALLATION MAINTENANCE

UNIT CODE: ENG/CU/EI/CR/04/5

Relationship to Occupational Standards

This unit addresses the unit of competency: Maintain Electrical Installation

Duration of Unit: 90 hours

Unit Description

This unit specifies the competencies required to maintain an electrical installation, which includes preparation of maintenance schedule, inspection servicing and tests.

Summary of Learning Outcomes

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

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Prepare maintenance schedule	<ul style="list-style-type: none"><input type="checkbox"/> Maintenance<ul style="list-style-type: none">• Meaning of terms• Types and procedures<ul style="list-style-type: none">➤ Periodic service➤ Preventive➤ Breakdown➤ Corrective• Scheduling maintenance based on service manuals• Safety precautions to be observed	<ul style="list-style-type: none"><input type="checkbox"/> Written tests<input type="checkbox"/> Oral questioning
2. Inspect electrical installation	<ul style="list-style-type: none"><input type="checkbox"/> Identification and documentation of maintenance tools, materials and equipment<input type="checkbox"/> Specifications of identified tools, materials and equipment against safety standards<input type="checkbox"/> Inspection procedure<input type="checkbox"/> Recording of inspection findings	<ul style="list-style-type: none"><input type="checkbox"/> Observation<input type="checkbox"/> Oral questioning<input type="checkbox"/> Written tests

3. Perform installation maintenance	<input type="checkbox"/> Fill in maintenance checklist <input type="checkbox"/> Performance of maintenance activities and updating of necessary records <input type="checkbox"/> Disposal of waste materials e.g. <ul style="list-style-type: none"> • Old batteries • Oils • Lugs and screws • Tapes • Cable sheaths • Off cuts 	<input type="checkbox"/> Observation <input type="checkbox"/> Oral questioning <input type="checkbox"/> Practical tests <input type="checkbox"/> Written tests
4. Conduct system tests	<input type="checkbox"/> Identification of test points and parameters <input type="checkbox"/> Safe test procedures <input type="checkbox"/> Test results documentation	<input type="checkbox"/> Observation <input type="checkbox"/> Oral questioning <input type="checkbox"/> Practical tests <input type="checkbox"/> Written tests

Suggested Methods of Delivery

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

easyvet.com

Recommended Resources

Tools <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Stationery • Cables • Lubricants • Service parts
Equipment <ul style="list-style-type: none"> • PPE –hand gloves, dust coat, dust masks • Multimeter • Clamp meter 	Reference materials <ul style="list-style-type: none"> • Service manuals • IEE regulations • Organization procedures manual

<ul style="list-style-type: none">• Earth electrode resistance meter• Phase sequence meter	
---	--

easytvvet.com