### PERFORM FIXING AND MAINTENANCE OF LIGHT FITTINGS, POWER OUTLETS AND BASIC APPLIANCES UNIT CODE: EE/OS/ET/CR/03/3

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#### **Unit Description**

This unit covers the competencies on fitting, mounting and installing wiring devices, installing lighting fixtures/switches, notifying completion of work, mounted outlets, auxiliary outlets and maintenance.

Element	Performance Criteria
These describe the	These are assessable statements which
key outcomes which	specify the required level of
make up workplace	performance for each of the elements.
function	Bold and italicized terms are
	elaborated in the Range
1. Select wiring	1.1 Drawings are read and interpreted
devices and	to determine job requirements.
basic appliances	1.2 Correct type and quantity of
	wiring devices and consumable
	items are identified in line with job
	requirements.
	1.3 Tools and equipment are selected
	in line with job requirements
	1.4 Correct <b>PPE</b> are identified and
	selected in line with safety
	requirements.
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#### **ELEMENTS AND PERFORMANCE CRITERIA**

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2. Install wiring	2.1 Safety procedures are followed
devices and	based on safety regulations
basic appliances	2.2 Installation of <i>wiring devices</i> and
	basic appliances are performed in
	line with job requirements
	2.3 Wiring devices and basic
	appliances are grounded in
	accordance with IEEE regulations
	2.4 Schedule of work is followed
	based on agreed time, quality
	standard and minimum wastage
	2.5 Further instructions are sought in
	case of unplanned events or
	conditions.
	2.6 Changes are recorded according
	to work place procedures.
	2.7 Identification and labeling of
	Circuits is carried out.
	2.8 On-going checking of quality of
	work is done in accordance with
	instructions and requirements
	2.9 Reports are prepared in
	accordance with work place
	procedures

Element	Performance Criteria
These describe the	These are assessable statements which
key outcomes which	specify the required level of
make up workplace	performance for each of the elements.
function	Bold and italicized terms are
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3. Install lighting	3.1 Safety procedures are followed.
fixtures	3.2 Installation of <i>light fixtures</i> are
	performed in line with job
	requirements.
	3.3 Schedule of work is followed to
	ensure work is completed in an
	agreed time, to a quality standard
	and with a minimum waste.
	3.4 Further instructions are sought
	from a supervisor if unplanned
	events or conditions occur.
	3.5 Changes are recorded according to
	work place procedures.
	3.6 On-going checks of quality of
	work are undertaken in
	accordance with instructions and
	requirements.
	3.7 Reports are prepared in accordance
	with work place procedures.

<b>Element</b> <i>These describe the</i> <i>key outcomes which</i> <i>make up workplace</i> <i>function</i>	Performance Criteria These are assessable statements which specify the required level of performance for each of the elements. Bold and italicized terms are elaborated in the Range
4. Complete installation of wiring devices, basic appliances and lighting fixtures	<ul> <li>4.1 Final checks are made to ensure that work conforms with instructions and to requirements</li> <li>4.2 Supervisor is notified upon completion of work</li> <li>4.3 Tools, equipment and any surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with established procedures Work area is cleaned and made safe</li> </ul>

5.1 Tools and againment are selected	
5.1 Tools and equipment are selected	
in line with job requirements.	
5.2 Correct PPE are identified and	
selected in line with safety	
requirements.	
5.3 Identify the fault and perform the	
repair in line with the IEE	
regulations.	
5.4 Perform repair on the appliance in	
line with the manufacture's	
manual.	
Performance Criteria	
These are assessable statements which	
specify the required level of	
performance for each of the elements.	
Bold and italicized terms are	
elaborated in the Range	
5.5 Maintain the installation and	
appliances in line with the set	
standards	

### 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.

Variables	Range
	May include but not limited to:

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1. Wiring	-	Socket outlets Cooker
devices		units
	1.3	Double pole switches
	1.4	Circuit breakers
2. Light fixtures	2.1	Light fittings
	2.2	Light switches
3. Consumables	3.1	Insulating tapes
	3.2	Strip connectors
	3.3	Sleeves
4. Basic	4.1	Cookers
appliances	4.2	Instant water heaters
	4.3	Water pumps
	4.4	Hand dryers
Variables	Ran	ge
	May	include but not limited to:
	4.5	Fans
	4.6	Air conditioners
5. Tools and	5.1	Pliers
equipment	5.2	Screwdrivers
	5.3	Electrician knives
	5.4	Clipping tools
	5.5	Spirit levels

	5.7	Drills
	5.8	Wrenches
	5.9	Tape measures
6. Personal	6.1	Working gloves
protective	6.2	Safety shoes
equipment	6.3	Helmet
(PPE)	6.4	Overalls and aprons
	6.5	Safety harness
	6.6	Googles
	6.7	Nose masks
7. Safety	7.1	IEEE regulations
procedures	7.3	Building Code
	7.3	Safety standards

# **REQUIRED SKILLS AND KNOWLEDGE**

This section describes the skills and knowledge required for this unit of competency.

### **Required Skills**

The individual needs to demonstrate the following skills:

- Interpreting plans and drawings
- Handling and storage of materials, tools and equipment
- Observing safety standards
- Installing wiring devices, lighting fixtures and basic appliances
- Communication
- Report writing and record keeping

# **Required Knowledge**

The individual needs to demonstrate knowledge of:

- Interpretation of drawings
- Materials specification
- Types and uses of electrical wiring devices, tools and equipment
- Proper PPEs
- Types of lighting fixtures and installation techniques
- Installation procedures of various wiring devices, lighting fixtures and basic appliances
- Ratings of lighting fixtures
- Maintenance of tools
- Storage of tools
- Report writing and record keeping
- Good housekeeping

### **EVIDENCE GUIDE**

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

1. Critical	Assessment requires evidence that the
aspects of	candidate:
competency	1.1 Observed safety standards
	1.2 Correctly interpreted drawings and
	work instructions
	1.3 Selected appropriate tools, equipment
	and materials for installing wiring
	devices, lighting fixtures and basic appliances
	1.4 Selected and used correct PPE
	1.5 Demonstrated correct procedures for
	installation of wiring devices and
	lighting fixtures and basic appliances
	1.6 Cleaned worksite, tools and equipment
	1.7 Stored surplus materials
	1.8 Prepared reports and kept records.
2. Resource	The following resources should be
Implications	provided:
	2.1 Workplace location
	2.2 Tools and equipment appropriate for
	installation of wiring devices,
	lighting fixtures and basic appliances
	2.3 Materials relevant to the proposed
	activity
	2.4 Drawings and specifications relevant to the task

3. Methods of	Competency may be assessed through:
Assessment	3.1 Direct observation of application of
	tasks
	3.2 Oral questioning
	3.3 Demonstration/practical activity
	3.4 Written test
4. Context of	4.1 Competency may be assessed in the
Assessment	workplace or in a simulated workplace
	setting.
	4.2 Assessment shall be observed while
	the tasks are being undertaken either
	individually or as part of a team under
	limited supervisions.
5. Guidance	Holistic assessment with other units
information	relevant to the industry sector and current
for assessment	technology, workplace and job role is
	recommended.