# SELF ASSESSMENT GUIDE

## Qualification:
**ELECTRICAL INSTALLATION AND MAINTENANCE NC II**

### Units of Competency covered:
- Performing roughing-in activities, wiring and cabling works for single-phase distribution, power, lighting and auxiliary systems
- Install Electrical Protective devices for distribution, power, lighting, auxiliary, lightning protection and grounding system
- Install Wiring Devices of Floor and Wall Mounted Outlet Lighting Fixture/Switches and Auxiliary Outlets

### Instruction:
- Read each of the questions in the left-hand column of the chart.
- Place a check in the appropriate box opposite each question to indicate your answer.

### Can I?

<table>
<thead>
<tr>
<th>Performing roughing-in activities, wiring and cabling works for single-phase distribution, power, lighting and auxiliary systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicate and confirm instructions for the preparation of work activity to ensure clear understanding*</td>
</tr>
<tr>
<td>Interpret electrical plan and detailed drawing*</td>
</tr>
<tr>
<td>Identify and check to ensure that tools, equipment and personnel protective equipment needed to electrical system*</td>
</tr>
<tr>
<td>Identify and check auxiliary equipment, if it works correctly and are safe to use in accordance with established procedures*</td>
</tr>
<tr>
<td>Use safety harness or PPE properly*</td>
</tr>
<tr>
<td>Bend and install type of conduit and cable tray as per job requirement. *</td>
</tr>
<tr>
<td>Perform correct procedures for installation of electrical auxiliary system in line with job requirements*</td>
</tr>
<tr>
<td>Ensure work is completed in an agreed scheduled time in accordance with the quality standard.*</td>
</tr>
<tr>
<td>Respond to unplanned events or conditions accordingly*</td>
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<tr>
<td>Install conduit and fittings in accordance with standard *</td>
</tr>
<tr>
<td>Perform installation qualification (IQ) activities*</td>
</tr>
<tr>
<td>Perform operational qualification (OQ) activities*</td>
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</tbody>
</table>
## Install Electrical Protective devices for distribution, power, lighting, auxiliary, lightning protection and grounding system

- Communicate and confirm instructions for the preparation of work activity to ensure clear understanding*
- Interpret electrical plans and detailed drawing*
- Identify and check to ensure that tools, equipment and PPE needed to electrical system and by auxiliary equipment works correctly and are safe to use in accordance with established procedures*
- Follow safety procedures and the use of safety harness*
- Perform correct procedures for the installation/mounting configuration of electrical protective devices and grounding system*
- Respond to unplanned events or conditions accordingly*
- Select the types of lighting fixture and auxiliary outlet for the installation*
- Undertake ongoing checks of quality of work in accordance with instructions and requirements*
- Terminate/Splice conductors/wires in accordance with the existing electrical standards*
- Perform final checks to ensure that work conforms to instructions and drawing/diagram. *
- Perform the installation economically*
- Perform commissioning activities*

## Install Wiring Devices of Floor and Wall Mounted Outlet Lighting Fixture/Switches and Auxiliary Outlets

- Read and interpret drawings in accordance with job requirements*
- Set the lay-out and dimension of electrical drawing or wiring diagram. *
- Select and identify correct rating, quantity, sizes and type of wiring devices, switches, lighting fixture and convenience outlet*
- Identify the specifications of materials, tools and equipment
- Fill up properly requisition forms according to list of materials, tools and equipment
- Follow safety procedures according to enterprise and government regulations and select the correct PPE in line with safety requirements*
- Identify defective and/or substandard electrical materials and report to immediate supervisor*
- Lay out, mount and install electrical components, wiring materials such as conduit and fittings in accordance with standards*
- Install wiring protective devices and grounding system properly*
- Install the different types of lighting fixtures/switches as per wiring diagram*
- Follow work schedule to ensure job is completed on time in accordance to a quality standard and minimum wastage
- Seek further instructions from immediate supervisor in case of unplanned events or conditions occurring*
- Undertake with strict compliance ongoing checks of quality of the work in accordance with instructions and requirements
- Perform the installation economically*
- Perform commissioning activities*

I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.

<table>
<thead>
<tr>
<th>Candidate’s Name &amp; Signature</th>
<th>Date:</th>
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</thead>
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NOTE: *Critical Aspects of Competency