

# NTC Training Centre

## ELECTRICAL ENGINEERING

### COURSE

- Ask the candidate if he/she can do the following mark in the Yes/No column.
- Ask the candidate if he/she would like to go for assessment.
- Advise the candidate to go for training and give information of appropriate training centre.

Trade	Task	Description
Electrician	Use of hand tools	<p><b>Can you do the following?</b></p> <ul style="list-style-type: none"> <li>- Filing of flat steel, one side flat and all four edges flat and square</li> <li>- Drilling of clearance and tap holes</li> <li>- Square tapping and saw cutting</li> </ul>
	Installation of electrical wire ways	<ul style="list-style-type: none"> <li>- Installation of electrical wire ways to a given plan, steel conduit only</li> <li>- Installation of electrical wire ways to a given plan, combination of steel conduit, PVC, trunking, armoured and surfix cable</li> </ul>
	Panel Wiring	<p>Circuit design and wiring of;</p> <ul style="list-style-type: none"> <li>- 3 phase kilo-watt hour meters</li> <li>- 3 phase load balancing control</li> <li>- 3 phase motor control</li> <li>- 3 phase sequential control</li> <li>- Single phase motor control</li> <li>- Current/potential circuit control</li> <li>- Tree oscillating circuit control</li> <li>- Steam generator with pressure release control</li> </ul>

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Trade	Task	Description
Electrician	Pre-manufactured motor starters	<b>Testing and completion of wiring to given schematic diagram of;</b> <ul style="list-style-type: none"> <li>- Star delta starter</li> <li>- 2 speed starter</li> <li>- Resistance starter</li> <li>- Auto transformer starter</li> </ul>
	Wiring and fault tracing on plug-in-panel	Circuit design, wiring and fault tracing on; <ul style="list-style-type: none"> <li>- 3 Phase automatic star delta</li> <li>- 3 or 1 phase sequential starters</li> <li>- 3 phase forward reverse starter</li> <li>- 1 phase forward reverse starter</li> </ul>
	Additional Tasks	<ul style="list-style-type: none"> <li>- Wiring and calculating of three single phase transformers</li> <li>- Calculation of three-heat control</li> <li>- Installation and wiring of three-heat switch to elements</li> <li>- Testing of resistance and draw schematic diagram</li> <li>- Wiring of single phase motor to rotary switch by means of a flexible cord.</li> <li>- Test and inspection of an electrical motor single or three phase</li> <li>- Test and inspection of an electrical installation.</li> </ul>

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