



COURSE NAME: Assistant Electrician

NSQF LEVEL: 3

REFERENCE ID: CON/Q0602

ALIGNED TO: NCO-2004/7137.2

Brief Job Description:

Assistant Electrician will be assisting level-4 electrician or superior in electrical work for the installation, repair, and maintenance of temporary LV electrical connections at the construction sites and permanent connections at residential and commercial buildings. The individual will be engaged in laying conduits for LV single phase wiring with appropriate selection and use of hand and power tools efficiently.

Personal Attributes:

The job holder is expected to be physically fit and should be able to work across various locations in withstanding extreme conditions while working at the site; well versed with tasks and functions of basic electrical work. The person must be able to work within a team, handle the various tools and materials related to electrical work safely, consciously and take responsibility for own work.

Module 1 : Introduction, Electrical Tools & Devices

- | |
|--|
| • Electrician Job Role & Tools |
| • Electric Current, Voltage & Resistance |
| • Electrical Wiring Materials & component or Accessories Testing Board |
| • Circuit Breaker & it's type |
| • Circuit & Method to trace out short circuit |
| • Electrical Conduit, Wire & its type |
| • Basic of Computer |
| • Basic of Internet |
| • Story / Case Study Based Brain Storming Session |

Assessment for Module 1

Module 2 : Lighting Arrangement

- | |
|---|
| • Electric Wire & it's type |
| • Electrical units of measurements |
| • Electrical Load, theory & Fuse |
| • Watt Calculation of Appliances |
| • Various type of conductors, insulators and semiconductors |
| • Electric Repairs & Maintenance |
| • Basic of MS Office |
| • Basic of Email Writing |
| • Group Discussion |

Assessment for Module 2



Module 3 : Low Voltage Wiring

- Circuit & Method to trace out short circuit
- Single phase LV wiring diagram.
- Necessary tests to electrical circuit during and post wiring.
- Wiring symbols of single and three phase wiring.
- LV cable depending upon the circuit load requirement.
- Electrical Safety gears & equipment's
- Plan activities as per schedule and sequence
- Basic of MS Word
- Basic of Listening Skill
- Interaction With SME

Assessment for Module 3

Module 4 : Electrical Panel & Information Sharing

- Importance of effective communication
- Resources allocation at site
- DB to main power cable
- Earthing of the panels
- Necessary tagging, barricading near to the live/ active electrical
- Distribution board against water, fire
- Wiring symbols of single and three phase wiring single line diagram (SLD)
- Single line diagram
- Electrical units of measurements and their signs
- Electrical Safety gears & equipment's
- Basic of MS Excel
- Basic of Concall
- Interaction With Corporate
- Interpersonal Skill

Assessment for Module 4



Module 5 : Safety Measurement

- Information sharing with team members
- Trouble shouting & hazards, risks or breaches in site safety
- Use appropriate Personal Protective Equipment (PPE)
- Roles and responsibilities
- Safety awareness programs at site
- Read sign boards, notice boards relevant to safety
- Basic ergonomic principles as per applicability
- Basic of MS power Point
- Basic of Video call
- Conflict Management
- Importance of Team
- Objection / Rejection Handling

Assessment for Module 5

Interaction with Subject Matter Expert

Certification