

ANNEXURE A

THE TRAINING PROGRAMME / PATH CONSIDERED

Rural Line Construction

Main topics covered in the training programme are:

- Occupational Health and Safety
- First Aid
- Familiarisation with Tools and Equipment
- Understanding and Reading Spanning Sheets
- Supply of Poles and Material
- Excavation of Holes
- Stays
- Structures
- Stringing of Conductors
- Pole Transformers, Line links and Surge Arrestors
- Meter Boxes and Cabling
- SAG Tables for Mine Conductor
- Assembly of Poles
- Type of Pole Holes
- Rural Line Tests

Supply Installation Operator

Main topics covered in this programme:

- Safety and General Electrical Safety
- Tools, Equipment and Statutory Requirements
- Customer Relations
- Introduction to Pre-Paid Metering
- Mount and Wire of Pre-Paid Wall Unit
- Mounting of Service Box
- Connection to Bundle Conductor and Service Box
- Installation and Termination of Air-Dac Cable
- Supply to Consumer via underground PVC SWA Cable
- Mount and Connect Pre-Paid Meter and Ready Board
- Polarity and Earthing
- Basic Fault Finding
- General Information on Pre-Paid Systems
- E-Kard System
- Cables and Conductors

Basic Electrical Modules 0, 1, 2 & 3

Main areas of attention are:

- Induction to the Electrical Contracting Industry
- Basic First Aid
- Safety aspects pertaining to workshop and general electrical installation work
- Principles of Electric Current Flow, Ohm's Law, Series/Parallel circuits;
- Power/Volts/Amp Resistance calculations; A C Power Distribution.
- Familiarisation with basic electrical symbology, terminology, tools and equipment.
- Basic measuring out, marking-off, hacksawing, filing, drilling and electric-arc tackwelding.
- Three Phase Generation & Phase Difference.
- HT to LT Distribution L1, L2, L3, N & E.
- Three Phase 4 and 5 Wire Systems Distribution.
- Load Balancing.
- Drawing diagrams, wiring and connecting lighting and heat-switching circuits
- Installing conduit, wire-ways and electrical enclosures and equipment.
- Wiring and connecting lighting, heating and socket-outlet circuits.
- Wiring and connecting Distribution Boards and Meter Boxes.
- Checking the Distribution boards and meter boxes.
- Commissioning the installation (basic installation test
- Course tests and final exams.

Electrical Appliance Repair

Course Content includes:

- Safety aspects related to workshop electricity and appliance repair.
- Basic First Aid
- Familiarisation with terminology, tools and equipment used in appliance repair.
- Making-off and installing flexible cables and cords.
- Testing, installing and connecting single-phase AC motors.
- Testing and repairing of domestic electrical appliances, including stoves; hot water cylinders; washing machines; tumble driers; vacuum cleaners.
- Testing and repairing small portable electrical appliances.

NB!! Minimum entry requirement:

Basic Electrical Modules 0, 1, 2 & 3 or
Proven Electrical Experience!

Domestic Refrigeration Repair

The course content includes:

- Swaging, flaring, forming and joining tubing
- Silver soldering, copper welding and aluminium soldering
- Testing of motor compressor units
- Evacuating and recharging of refrigerant
- Leak detecting
- Fault finding and repair of electrical circuitry
- Fault finding and repair of refrigerant system

NB!! Minimum entry requirement:

Basic Electrical Modules 0, 1, 2 & 3

Business Start-Up Programme

The course covers the following

- Registration and orientation.
- Establish the profitability of selected business.
- Prepare a business plan.
- Prepare a marketing plan.
- Present business plan to bankers.
- Develop implementation strategy.
- Keep record of financial activities.