

INSTALLATION AND MAINTENANCE OF DTH SYSTEMS

NAME : INSTALLATION AND MAINTENANCE OF DTH SYSTEMS
SECTOR : ELECTRONICS
CODE : ELC202
Duration : 60 Hrs

Entry qualification : 8th std pass with age at least 14 years.

**MES Modules on Basic Electronics -Repair and Maintenance of
Power supply, Inverter and UPS**

TERMINAL COMPETENCY:

After completion of this module participants will be able to :-

- i) identify parts and learn terminology used for DTH system.
- ii) assemble the parts of mini-dish and install independently at customers premises.
- iii) Guide the customers to operate the DTH systems installed in their residence
- iv) Learn to have effective interaction with custom

CONTENTS:

Practical Competencies	Underpinning Knowledge (Theory)
Practice procedures for safety and health hazards measures	Electrical and personal safety, dangers and preventions
Name the various mini-dish components and their functions.	Basic satellite communication, types of satellite & its orbits, uplinks and down links, frequency spectrum, broadcast centers, area covered, polarization, EFC, symbol rate, BER, MER, C/N, etc.
Chronology to assemble the various parts of minidisk.	Specification & parts of coaxial cable, impedance and specification
Various types of connectors and cables, its specifications and connectorization procedure.	
Identify and use different tools and equipments used in DTH installation procedure & cabling procedure.	Multi-dwelling unit design, headed amplifier, line amplifier, cascaded in/out multi-switch, tap, splitter.
Site selection, installation mounting tracking for azimuth and elevation angles using SAT meter. Laying cable, connecting auxiliary equipments.	
Activating, setting of IRD/DIGICOM/DIGIBOX	

RESOURCES:

- 1 Complete Assembly of mini dish
- 2 IRD/Digibox/digicom alongwith all channel package
- 3 Tool Kit (Comprising various tools added as per requirements
- 4 Special tools as compression tools, preparation tools and other tools required time to time etc.
- 5 Power drill machine Hammer type bidirectional rotation
- 6 SAT Meter
- 7 Colour TV
- 8 Inclano meter
- 9 Compass
- 10 Practice wall comprising bricks, concrete etc.
- 11 LNBF (Universal, dual, quad, quattero)
- 12 Headed amplifier, line amplifier, cascaded 2 in 4 out multi-switch, tap, splitter.