

REPAIR AND MAINTENANCE OF INTERCOM SYSTEMS

Name : REPAIR AND MAINTENANCE OF INTERCOM SYSTEMS

SECTOR : ELECTRONICS

CODE :ELC208

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*

DURATION : 150 hrs

TERMINAL COMPETENCY: HE/SHE can able to setup a intercom network with EPABX and repair Electronic Push button Telephones.

CONTENTS:

| Practical Competencies | Underpinning Knowledge (Theory) |
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| <i>Practice procedures for safety and health hazards measures</i> | <i>Electrical and personal safety, dangers and preventions</i> |
| Test the components used in the pushbutton telephone | Identify the components used in Push button telephone |
| Identify the various tone signals used in the phones | Understand the various tones used in the phone circuits |
| Testing of microphone and speaker | Use of microphone and speaker |
| Testing & replacing components in the protection circuit and ringer circuit | Differentiate pulse dialing and tone dialing and their applications |
| Test the key pad for proper function and repair the key pad problems | Functions of the dialer circuit and speech circuit |
| Identify the faulty component and replace in the dialer circuit and speech circuit | Testing methods of pushbutton telephone for proper functions |
| Test and identify the fault in a pushbutton telephone | Use of various adaptors, connectors and sockets used in the telephone circuits |
| Identify and fix the various adaptors, connectors and sockets | Methods to connect the trunk line and extension line in a EPABX |
| Identify the terminals of trunk line and extension line and connect the extensions | Call wait, call transfer, conference facility available in a EPABX |
| Setting the call transfer, call wait and other facilities available on EPABX | Read wiring circuits and understand the wiring of extension circuits. |
| Trace the wiring and locate the fault in the extension wiring circuit | |

RESOURCES:

1. EPABX of 2+ 6 line - 1 no
2. EPABX of 2 + 10 line - 1 no
3. Pushbutton telephones - 5 Nos
4. Telephone analyzer - 1 no.
5. Crimping tool - 1 No.
6. MULTIMETER – 1 No.