

Repair & Maintenance of TV Receiver

NAME : Repair & Maintenance of TV Receiver
SECTOR : Electronics
CODE : ELC205
DURATION : 180 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 the participant would be able to repair Television.

CONTENTS :

Practical Competencies	Underpinning Knowledge (Theory)
<i>Practice procedures for safety and health hazards measures</i>	<i>Electrical and personal safety, dangers and preventions</i>
Installation of a TV receiver	Explain the working principle of black and white and color TV using block diagram. Explain the need and working principle of each block Detailed explanation of power supply and high voltage generation section Explanation of PT , various voltages required for PT
Check the SMPS for various output voltages	
Identify different stages and special components	
Check the EHT section for various faults by using step by step method	
Check the tuner section for various tuning problems	
Check the vertical and Horizontal section for various oscillations and drive problems.	
Simulate faults related with the micro controller and I ² C sections . Fault finding in remote control TV kit replacement with suitable yoke system (vertical and horizontal deflection coils)	

RESOURCES:

- Television of different makes.
- Technicians tool kit
- Soldering iron
- Digital Multimeter
- Isolation transformer
- Pattern generator (B/W & COLOUR)
- Infra Red remoter control tester