

Course Code	Course Name	Credits
26PH954	MOBILE HANDSET REPAIRING AND MAINTENANCE	02

### Course Description

This course is designed to provide practical knowledge and technical skills in mobile handset repairing and maintenance. It emphasizes hands-on training, enabling learners to diagnose and rectify hardware and software issues while fostering entrepreneurial abilities for self-employment.

### Course Objectives

- To develop technical competency in mobile handset servicing.
- To understand mobile communication technologies and device architecture.
- To promote self-employment and entrepreneurship in the service sector.
- To familiarize learners with tools, equipment, and software used in mobile repair.

### Skill Enhancement Outcomes

Upon successful completion of this course, the learner will be able to:

- Demonstrate confidence in self-employment and entrepreneurial ventures.
- Identify business opportunities and manage a small-scale enterprise.
- Diagnose and repair hardware and software faults in mobile handsets.
- Use appropriate tools, spare parts, and software for maintenance and servicing.
- Perform testing, troubleshooting, and ensure customer satisfaction.
- Establish and operate a mobile handset repairing unit independently.

### Course Content and Practical Training

- Introduction to mobile phones and generations of communication (GSM, CDMA, TDMA)
- Basic electronic components used in mobile devices
- Handset operating systems, features, and applications
- Working principles and internal components of mobile handsets
- Tools and equipment used for mobile servicing
- Power supply systems and battery management techniques
- Fundamentals of troubleshooting techniques
- Diagnosis and repair of common hardware issues:
  - Network problems
  - Dead phones (power failure)
  - Water damage
  - Charging and keypad faults
- Handset assembly and disassembly procedures
- Soldering, De-soldering, and SMD rework techniques
- Basics of computer operations
- Software installation, flashing, and formatting
- Use of PC-based diagnostic tools and service codes

### Learning Outcome

At the end of the course, learners will be able to independently diagnose, repair, and maintain mobile handsets and establish a small-scale service enterprise.