Course: **Small Appliance Repairs 101 A Practical Approach**

Guided Learning Hours: **30 hours**

Pre-requisite: **N/A**

Abstract

Small Appliance Repairs 101 - A Practical Approach will provide individuals with the training necessary to carry out maintenance and repairs of small appliances.

This course outline ensures students with no prior experience can develop foundational skills in small appliance repair through practical and guided learning.

Target Audience

Beginners with no prior background in electricity or electronics

Learning outcomes

On completion of this course, learners will be able to:

- Introduce basic concepts of electricity and electronics.
- Develop skills to identify and repair common issues in small appliances.
- Provide hands-on practice with troubleshooting and repairing various appliances.

Teaching Method:

The course will combine lectures, demonstrations, hands-on activities, and discussions to ensure a deep understanding and practical application of the course content.

Course Outline

- **Module 1: Introduction to Electricity and Electronics**
  - Understanding Electricity: Voltage, Current, Resistance.
  - Introduction to Circuits and Components: Resistors, Capacitors, Switches, and Fuses.
  - Safety Precautions and Tools for Appliance Repairs.
- **Module 2: Microwave Oven Repair**
  - Overview of Microwave Oven Components: Magnetron, Diodes, Transformers, and Control Boards.
  - Common Issues: No heating, unusual noises, or sparking.
  - Troubleshooting and Repairs: Checking power supply, replacing fuses, and magnetron diagnostics.
  - Hands-On Practice: Disassembly, component testing, and reassembly.
- **Module 3: LED TV Repair**
  - Understanding LED TV Components: Backlight, Power Supply Unit, and Main Board.
  - Common Issues: No display, flickering screen, or no sound.
  - Basic Troubleshooting: Testing power supply, replacing backlight strips, and simple soldering techniques.
  - Hands-On Practice: Diagnosing and fixing typical LED TV problems.
- **Module 4: Stereo System Repair**
  - Components of a Stereo System: Amplifiers, Speakers, Power Units, and Connectors.
  - Common Issues: No sound, distorted audio, or power failure.
  - Troubleshooting: Checking speaker connections, diagnosing amplifier problems, and repairing power supply issues.
  - Hands-On Practice: Replacing connectors and fixing minor amplifier faults.
- **Module 5: Hair Dryer Repair**
  - Anatomy of a Hair Dryer: Motor, Heating Element, and Thermal Cutoff.
  - Common Issues: No heat, weak airflow, or not turning on.
  - Troubleshooting and Repairs: Replacing heating elements, fixing motor issues, and checking switches.
  - Hands-On Practice: Disassembling and repairing hair dryers.
- **Module 6: Clothes Iron Repair**
  - Components of a Clothes Iron: Heating Plate, Thermostat, and Wiring.
  - Common Issues: No heating, inconsistent temperature, or water leakage.
  - Troubleshooting: Diagnosing heating element and thermostat problems, repairing wiring, and sealing water leaks.
  - Hands-On Practice: Repairing and testing clothes irons.