



Course Name: Servicing and Repairing Washers - A Practical Approach

Contact Hours: 30

Pre-requisite: No prior technical knowledge is required.

Abstract

This comprehensive 10-week technical training program is designed to provide participants with in-depth, practical knowledge and hands-on skills for the servicing and repair of domestic washing machines and electric dryers. The course emphasizes a systematic and diagnostic approach to fault identification, troubleshooting, and repairs using current industry standards and safety practices.

Participants will engage in a blended learning experience that combines 20% theoretical instruction with the larger portion 80% being guided laboratory-based practical. The curriculum covers key topics such as electrical and mechanical systems of washers and dryers, common failure points, use of diagnostic tools, disassembly and reassembly procedures, and maintenance protocols. Real-world case studies and exposure to both functional and faulty appliances will ensure that trainees develop the competence required to work independently or under supervision in residential appliance repair settings.

Target Audience

This course is geared towards:

- Newcomers to the appliance repair field who are seeking to develop foundational skills in servicing and repairing washers and dryers. It is ideal for:
- Individuals with no prior experience in appliance repair but with a strong interest in entering the trade
- School leavers or recent graduates exploring technical or vocational career paths
- Career changers looking to transition into a hands-on, in-demand industry
- Unemployed or underemployed individuals seeking marketable technical skills
- Participants in workforce development or community training programs aimed at entry-level job readiness

Learning Outcomes

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

1. Describe the operational principles and internal systems of both top-loading and front-loading washers, as well as electric dryers.
2. Identify and explain the function of key components, including motors, pumps, timers, belts, control boards, sensors, and heating elements.
3. Safely use diagnostic tools such as multi-meters and continuity testers to detect faults in electrical and mechanical systems.
4. Interpret wiring diagrams, circuit schematics, and manufacturer documentation to guide repairs and maintenance.
5. Demonstrate proper procedures for disassembling, inspecting, repairing, and reassembling washer and dryer units.
6. Troubleshoot and repair common issues such as failure to start, poor drainage, no spin/agitation, heating problems, and excessive vibration or noise.
7. Conduct routine maintenance tasks such as cleaning filters, inspecting hoses, checking door seals, and recalibrating controls.
8. Apply industry-standard safety protocols in all repair and servicing activities.
9. Document repair procedures, parts replaced, and test results clearly and accurately for client or employer records.
10. Exhibit professionalism and clear communication when discussing appliance faults, repair options, and service timelines with clients or supervisors

Course Content

Module 1 -General Introduction

- Unit 1 - Introduction to Appliance Servicing and Industry Safety Standards
- Unit 2 - Tools, Equipment, and Workshop Practices

Module 2 - Washers

- Unit 1 - Understanding Washer types: Top-Load vs Front-Loads
- Unit 2 - Washer Components and Operating Systems
- Unit 3 - Common Washer faults and Troubleshooting Techniques
- Unit 4 - Diagnostic Tools and Electrical Testing for Washers
- Unit 5 - Disassembly, Repair, and Reassembly of Washers
- Unit 6 - Washer Maintenance and Preventive Servicing

Module 3 - Dryers

- Unit 1 - Overview of Electric Dryer Systems and Functions
- Unit 2 - Dryer Components and Common Faults
- Unit 3 - Diagnostic Tools and Electrical Testing for Dryers
- Unit 4 - Disassembly, Repair, and Reassembly of Dryers
- Unit 5 - Dryer Maintenance and Safety Considerations

Module 3 - Capstone/Review

- Unit 1 - Live Fault Diagnosis and Repair Simulations
- Unit 2 - Review, Client Communication, and Service Documentation