

SPHYVAC02 - Maintenance of Minor Equipment's (ADVANCED LEVEL)**Learning Objectives**

- To understand the various principles of domestic equipment's
- To predict the goodness or age estimation of domestic equipment's
- To perform layman checks and rectify minor defects
- To troubleshoot the defects of the most common household equipment's
- To understand the techniques involved in advanced repairing of household equipment's

Course Outcomes

By the end of the course, the students will be able to

- Able to suggest & do remedial measures in the domestic equipment
- Do technical checks with relevant tools and solve the problems
- Provide useful tips to users for prolonged usage.
- Understand the techniques involved in advanced repairing of household equipment's

Unit I

Household equipment's – Various types – General Maintenance

Unit II

Effect of external world on the condition of the equipment's – Influence of gravity, humidity, moisture, climate,

Unit III

Ageing of the equipment's – Wear and tear – Prolonging the condition

Unit IV

Technical checks - Specific testing tools for each category - Multi-tester, multimeter, Logic Probe, CRO

Unit V

Troubleshooting procedures - software debugging, Active & Passive devices replacement

Practice

Hands-on practice of Tools & Technical procedures of above listed equipment's

List of Equipment's (includes but not limited to)

Mechanical Doors and Windows; Taps and Pipes, Cots, Tables and other Furniture, Scrubbers and Powders

Thermal Gas stoves & cylinders, Geyser, Cooking Utensils, Pressure Cooker,

Electrical Lights, Fan, AC, Coolers, Inverter, Battery, etc

Electronics Mobile, TV, DVD, etc

Embedded Washing Machines, Induction Stoves, Computers, etc

Text Books :

Complete Guide to Home Appliance Repair – Evan Powel, Better Homes and Garden Books Pubn, (Amazon online purchase) 2019

The Hindu Speaks on Scientific Facts – General Volume, The Hindu Publication, 2006, Chennai

Yen, Yetharku, Yeppadi (Tamil) – Sujatha, Vikadan Pirasuram, 2005, Chennai

References:

Hand Book on Home Appliances – L.Palaniappan, S.P. Publications, Chidambaram, TN. 1st Edition, 2019. ISBN No. 978-93-5351-441-9

Troubleshooting and Repairing Major Appliances – Eric Keinert, McGraw-Hill Professional Publishers 2014, New Delhi