

Home Appliances Installation and Maintenance Technician

Class: B.Sc. - II

DURATION: Six Months

Mr. S.D. Jadhav

Department of Electronics

1. Title: **Home Appliances Installation and Maintenance Technician**

2. Year of implementation: 2020

3. Structure of Skill Development Course

Eligibility	Duration	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch	NSQF Level
HSC Pass	6 Month	20	30	50	03	30	L4

4. Evaluation Structure:

Theory Marks			Practical Assessment			Project/Field Visit	Total
ISE	ESE	Total	Exam	Journal	Total	Submission+Viva Voice	100
10	30	40	30	10	40	20	

Syllabus

Theory Syllabus

Learning Objectives:

1. To realize basic working principal of home appliances
2. To gain basic skill to diagnose fault in home appliances

Unit I: Introduction to home appliances (10)

Introduction and Working principal of Refrigerator and water purifier.

Unit II: Fault finding and repairing (10)

Tools and equipment use for Repairing and maintenance of Electrical Equipment, Test and Measurement Equipment, Fault identification, Repair and Maintenance of refrigerator and water purifier.

Learning Outcomes:

At the end of this course, the students should be able to

1. Explain basic working principal of home appliances.
2. Acquire Skill to diagnose the fault of home appliances.

Reference books:

1. Arora C.P., Refrigeration and Air conditioning II Ed. McGraw-Hill, Pub., 2000.
2. Field technician other Home Appliance Paperback, AISECT Content Group (Author),1 January 2018.

Practical Syllabus

Objectives:

1. Categorize various parts of home appliances product.
2. Understand the symptoms in the appliance and identify the fault

List of Experiments: **Home Appliances Installation and Maintenance Technician (30)**

1. Identify various parts of Refrigerator .
2. To detect and repair faults in Refrigerator.
3. Charging of Refrigerator system.
4. Practice in changing Temperature controller in Refrigerator. .
5. Practice in changing condenser coil in Refrigerator
6. Installation of water purifier.
7. Identify various parts of water purifier
8. To detect and repair faults in water purifier
9. Practice in changing water electric motor in water purifier
10. Practice in changing float valve lip switch in water purifier

Learning Outcomes:

After completion of the practical, Student is able to:

1. Identify various parts of home appliances product
2. To test and detect faults in home appliance and Establish Self business.

Reference books:

1. Arora C.P., Refrigeration and Air conditioning II Ed. McGraw-Hill, Pub., 2000.
2. Field technician other Home Appliance Paperback, AISECT Content Group (Author), 1 January 2018.

BOS Sub Committee:

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YCIS, Satara

Dr. G. S. Nhivekar Member
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Mr. Milind Dingane, Member
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