

SERVICING OF DOMESTIC ELECTRONICS PRODUCTS [SDEP]

General Information :

1. Name of the Trade : Servicing of Domestic Electronics Products.
2. Entry Qualification : Passed Class VII I
3. Duration of Training : 06 Months [Under Vocational Short Term Course]

Objective of The Course:

The objective of the Course is to impart necessary competencies to focus on technical competencies like skill and knowledge so that they become employable in private sectors as well as public sectors, and also go for self employment

At the end of the training the trainees will be able to :

- Identify different components in domestic electronic products.
- Identify and make lists of tools, equipment required for specific job.
- Identify faults in electronic products including adoption of remedial measures.
- To assess value of job undertaken.

The course content is to be covered in less than 26 weeks since some weeks will be used for enrolment procedures, leave of the instructor, holidays, examinations, industrial visit etc.

Course Break-up:

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| (a) Practical instruction | : 288 Hours. |
| (b) Theoretical instruction | : 67 Hours. |
| (c) Entrepreneurial Institution | : 05 Hours. |
| Total = 360 Hours. | |

Marks Alloted :

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| (a) Practical | : 400 |
| (b) Theory | : 100 |

Industrial Visit :

Industrial cum study tour to at least two different types of Electronics Industry concerned with domestic electronics products are necessary for successful implementation of the course.

Sl.	Theory	Hrs	Parctical	Hrs.
1.	Introduction to Electricity, Alternating Current (A.C), Direct Current (D.C.)	2	Identification of conductors, Insulator, Hand tools - Screw driver, Tweezer, Soldering Iron, Cutter etc. Demonstration on Soldering Practice.	10
2.	Introduction to Resistor - Types, specification, symbols, uses. Ohm's Law, Colour Code Series, Parallel circuit.	3	Identification of components, Measurement of Resistor using colour-code method.	10
3.	Introduction to Multimeter.	1	Measurement of Resistance by Multimeter (Analog & Measurement of Voltage and Current.	6
4.	Introduction to capacitor, Inductor - Types, Uses, Symbols.	1	Measurement of capacitor, Inductor by LCR Meter.	7
5.	Introduction to Transformer Types, Specification, Symbol, Uses. Relay - Symbol, Pin Configuration, Uses.	2	Voltage Measurement of Transformer Primary and Secondary. Testing of Relay.	12
6.	Introduction to Semiconductor. -Diode, Rectifiers-Types, Functioning, Specification, Uses.	6	Diode Measurement, Half Wave, Full Wave - Centre - Tapped, Bridge circuit. Handling of C.R.O.	24
7.	Introduction to Power-supply Zener Regulated, Using Regulator IC Introduction to Battery Eliminator.	3	Servicing of Regulated Power Supply and Battery Eliminator Circuit.	12
8.	Introduction to Transistor- Types, Lead configuration, Symbol, Specification, Uses. Amplifier - classification, function, Uses.	3 2	Transistor Testing by Multimeter CE Amplifier Circuit.	12
9.	Introduction to Oscillator- Function, Classification, Uses.	2	A stable Multivibrator circuit.	6

Sl.	Theory	Hrs	Parctical	Hrs.
10.	Introduction to AM Radio- Different Stage Identification, Principal of working. Introduction to FM Radio.	4 3	Demonstration on Radio Circuit Familiarization with different components used in Radio Voltage Measurement at the of different stage. Familiarization with FM kit.	20
11.	Introduction to Fault finding procedure of AM and FM Radio	2	Servicing of AM & FM Radio	30
12.	Introduction to B/W TV - Function of Tuner, Picture Tube with different controls, EHT Power supply.	5	Identification of important sections and components, Demonstration on Assembling of a B/W TV.	12
13.	Introduction to Fault Finding procedure of B/W TV.	2	Servicing of TV (B/W)	30
14.	Emergency Light - unctioning, uses.	1	Demonstration on Emergency Light & Servicing.	10
15.	Electronics Choke, Fan, Regulator, Light Dimmer, functioning, Advantages.	4	Demonstration on Emergency Light & Servicing.	10
16.	Calling Bell (IC Based) Electronic Buzzer, Alarm Circket.	4	Demonstration on Emergency Light & Servicing.	20
17.	Introduction to Digital Electronics -Binary No. System Logic Gates.	5	Familiarization with digital ICS, Logic Gate Realization.	12
18.	Introduction to CD, VCD - Function, Advantage over Recorder.	5	Demonstration on Different faults of CD & Servicing.	25
19.	Digital clock.	2	Demonstration on Different faults of CD & Servicing.	10
20.	Introduction to Computer.	5	Demonstration on parts of Computer, UPS.	10

ENTREPRENEURIAL INSTRUCTION

SL No.	Course Curriculum	Hours
1.	Brief idea on nature of small business management and Industrial Technical skill.	
2.	Preparation of schemes and vetting to Financial Institutions/ Lead Bank for obtaining loans.	
3.	Rules for setting up of business / production Unit.	
4.	Maintenance of Accounts; Labour Capital etc.	
5.	Man Management, Communication, Motivation.	
6.	Operational Management.	
7.	Market Survey.	
8.	Quality Control.	
9.	Visit to Industrial units for gathering idea to start the unit.	
10.	Choice of technology as per demand of local people of the District / State.	
11.	Knowledge of Sales Tax etc.	
12.	Brief idea for Registration of SSI, Trade License, Project Report, Proposal for loans etc.	
		Total 05