

SYLLABUS/ CURRICULUM

TV Repair Technician

(ELE/ N 3101)

This programme is aimed at training candidates for the job of “TV Repair Technician” in the Electronics Sector and by the end of the programme aims at building the following key competencies amongst the learner:

1. Interact with the customer in order to identify and understand the problem in the television set	2. Ensure customer satisfaction
3. Install and Repair dysfunctional CRT and FPD television	4. Identify dysfunctional components through visual inspection and by use of multi-meter
5. Test continuity and check for dry, uplift and short categories of fault	6. Operate measuring instruments like- multi-meter, soldering iron, CRO
7. Read and Comprehend signs, labels and warning	8. Communicate effectively
9. Follow behaviour etiquettes while interacting with others	10. Establishing good working relationships with colleagues within and outside the department by coordinating

This course encompasses 5 out of 5 National Occupation Standard (NOS) of Television Repair Technician Qualification Pack issued by Electronic Sector Skill Council.

Sl. No	Topic/Module	Duration (Hours)	Key Learning Outcomes	Corresponding NOS Code
Semester - I				
1)	Basic of Electronics	50	<ul style="list-style-type: none"> Familiarity with basic electrical and digital electronics Explain the function of various electronic components such as transistor, resistor, capacitor, inductor, tuner, transformer etc Fundamental of electricity Basic electronics and circuit knowledge specially with respect to Television set Knowledge of domestic wiring and different series & parallel connection Operate multi-meter, soldering iron, cathode ray 	ELE/ N 3103 ELE/ N 3104

Sl. No	Topic/Module	Duration (Hours)	Key Learning Outcomes	Corresponding NOS Code
			oscilloscope	
2)	Install the TV set	35	<ul style="list-style-type: none"> • Different section of a TV and their functioning • Familiarity with different types and designs of colour television • Remove packaging and check accessories • Select tools and equipment for installation • Fix the TV set at appropriate location • Check and ensure TV set's functioning • Different types of TVs such as CRT TV, LED TV, LCD TV • Concealed wiring and make connection of power supply, set top boxes, home theatre systems to the TV set • Fundamental of electrical and electronic symbols and SI units • Explain different features and functionalities of various models • Use of test equipment and tools such as multi-meter, volt -ohmmeter 	ELE/N 3102
3)	Repair dysfunctional CRT TV set	90	<ul style="list-style-type: none"> • Basic fundamental of CRT television set • Different section of a TV and their functioning • Understanding of colours, colour picture & signals and colour picture tube • Explain the function of picture tube • Skill in repair of B&W and color television set • Repair the CRT television set • Carry out basic earthing test and volt ampere test • Ensure that the fault is internal before disassembling the unit • Understand the symptoms and identify the fault • Reassemble the Television set and test its functioning • Operate measuring tools and equipments used to repair CRT TV set • Basic troubleshooting knowledge with respect to CRT TV set 	ELE/N 3103

Sl. No	Topic/Module	Duration (Hours)	Key Learning Outcomes	Corresponding NOS Code
4)	Repair dysfunctional Flat Panel Display (FPD)TV set	90	<ul style="list-style-type: none"> • Basic fundamental of LCD/ LED television set • Inspect all electrical and electronic parts of the unit • Skill in repair of colour television • Identify the reason for fault on the LED/ LCD TV set and fix it. • Ensure that the fault is internal before disassembling the unit • Reassemble and Reinstall the Television set and test its functioning • Operate measuring tools and equipments used to repair FPD TV set • Basic troubleshooting knowledge with respect to LED/ LCD TV set 	ELE/N 3104
5)	Engage with customer for Service	30	<ul style="list-style-type: none"> • Basic electrical and mechanical modules of various products. • Electronics involved in the type of product. • Models of different appliances and their common and distinguishing features. • Understand how to communicate with customers. • Etiquette to be followed at customer's premises. • Precautions to be taken while handling field calls and dealing with customers. • Communicate in local language. • Importance of personal grooming. 	ELE/N 3101
6)	Interact with colleagues	20	<ul style="list-style-type: none"> • Understand work requirements. • Report problems identified in the field. • Deliver work of expected quality. • Have feedback from a happy and satisfied customer. • Resolve inter-personnel conflicts and achieve smooth workflow. • Communicate effectively • Understand building of team coordination. 	ELE/N 0001

Total Programme Duration : 315 hours

(This syllabus/curriculum has approved by Electronic Sector Skill Council)