	SECTOR - ELECTRONICS AND HARDWARE JOB ROLE: FIELD TECHNICIAN AND OTHER HOME APPLIENCES QP CODE: ELE/Q3104 CLASS - X Total No of Topics - 24 Total No of Topics Deducted from four section - 5 % of (Total no of topics) = 20.83 %					
Sr. No	List Of Units	r as Follows - (Theory and Practicals n List of Practicals Aligned With Each Unit	Unit/Session to be reduced(Theory and Practical)	Remark(Reason for dropping or reduce)		
UNIT 1:	Electrical Components and Motors					
SESSION 1	 Relay, parts of relay, Types of relay, Circuit breaker, Fuse – types, use of fuses and its rating. 	 Identify the different parts of a relay, List the equipment using relay for circuit production, Identify the different parts of circuit breakers, List the different parameters of circuit breaker. Identify the parts of fuse 		Lession will complete in 7 hours. So 1 hour reduction of this lession		
SESSION 2	 Electric field and magnetic field, Electromagnetic induction, Fleming's left hand rule and right hand rule, Lentz law, Lorentz law, Winding, Winding types – wave winding and lap winding, 	 Draw a magnetic field of bar Demonstrate an experiment to show electromagnetic induction, Demonstrate the Fleming's left hand and right hand rule Identify the gauge of winding wire, Dismantle the motor and identify the winding of motor 	 Electric field and magnetic field, Fleming's left hand rule and right hand rule, 	THE vocational students of EH are study electric field and magnetic field,flemming's rule in 10th science book and also reduction of 4 hour for this correction.the total lession will cover in 8 hour		

SESSION 3	 Introduction to motor, Parts of motor, Types of motor, Working principle of motor, RPM of motor, Functioning of motor 	 Dismantle the given motor and identify the different parts of motor, Identify different types of motor, Read and list specifications mentioned on the motor, Measure the RPM of motor 	• Parts of motor,	Parts of Motor also Study in science of class 10th.also reduction of 2 hour for this correction.the total lession will cover in 8 hour
SESSION 1	-	Demonstrate the usage		Lession will complete in 14 hours. So 1 hour reduction of this lession
SESSION 2	 Components/modules of different mixer/ juicer/ grinder, Other products of the company. 	 Demonstrate to replace damaged component such as relay or thermostat Demonstrate to remove and replace the faulty module with a functional one at PCB level 	• Other products of the company.	As Per the Daily news and paper advt. students known the different model of company. So vt and subject expert decide to reduce it.lso reduction of 1 hour for this correction.the total lession will cover in 7 hour
SESSION 3		 Demonstrate to reassemble the mixer/ juicer/ grinder, Demonstrate and confirm functionality of the repaired mixer/ juicer/ grinder, Demonstrate the cleaning procedures of mixer/ juicer/ grinder. 		no reduction in this lession

UNIT 3	Repair and Maintenance of Microwave Oven			
SESSION 1	 Different models of microwave ovens, their features and functionalities, Functioning of microwave oven and its various modules, Functioning of various electromechanical parts of the microwave, Troubleshooting knowledge with respect to microwaves Frequently occurring faults such as intermittent heating, no heating, timing problem, display problem. 	 Demonstrate the usage of pattern of the microwave, Diagnose the fault based on initial inspection, Perform basic tests – power supply, volt ampere test and earth test power supply, Demonstrate to separate and inspect every module of the unit, Frequently occurring faults, Perform in depth diagnosis in service centre 		no reduction in this lession
SESSION 2	Components/modules of different microwaves• Energy ratings, BEE rating and concepts of e-waste, • Other products of the company	 Demonstrate to replace component for identifiedfault, Demonstrate to remove and replace the faulty module with a functional one at PCB level. 	Other products of the company	As Per the Daily news and paper advt. students known the different model of company. So vt and subject expert decide to reduce it.lso reduction of 1 hour for this
SESSION 3	 Reassembly process of the microwave oven, Factors confirming the proper functioning of the repaired/ replaced part or unit of the microwave oven, Cleaning and maintenance process of microwave oven 	 Demonstrate to reassemble the microwave oven, Demonstrate and confirm functionality of the repaired microwave oven, Demonstrate the cleaning and maintenance procedures of microwave 		no reduction in this lession
UNIT 4	Maintain Health and Safety			

SESSION 1	Safety precautions to be taken	 Demonstrate to take safety 	 Packaging waste disposal 	It is not necessory now to
	while installation, repair and	precautions to be taken while	procedures	study manage waste material
	maintenance of appliances,	installation, repair and maintenance	 Demonstrate the packaging 	for EH trade. also reduction of
	 Packaging waste disposal 	of appliances,	waste and its disposal,	2 hour for this correction.the
	procedures,	 Demonstrate the packaging 		total lession will cover in 8
	 Safety rules, policies and 	waste and its disposal,		hour
	procedures,	 Observe safety rules, policies and 		
	 Hazards, their causes and 	procedures,		
	prevention/personal safety	 Demonstrate to avoid hazards 		
		during repairs, using tools and		
		materials.		