



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Diploma in Vocation (D.Voc), 2nd Semester
Branch: All Branches
Subject Name: Field Technician II
Subject Code: 1220007

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	PR		Theory		Tutorial / Practical		
			University exams (ESE)	Progressive Assessment (PA)	External Practical /viva Exam(ESE)	Internal evaluation Practical /viva Exam(PA)		
-	-	15	15	-	-	100	100	200

Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	Identify the compressor. Demonstrate the functioning of compressor. Identify and list the types of compressor. List the advantages and disadvantages of centrifugal compressor, Demonstrate the Internal parts of compressor. List the different terms associated with reciprocating compressor. List the materials used in compressor. Identify the types of lubricants used in compressor. List the factors affecting compressor efficiency	40	25
2.	Demonstrate the basics of electricity and electrical, Identify the symbols of voltage, current, resistance, power in a circuit diagram, Draw the circuit and show voltage, current, resistance, power, Identify the Live, Neutral and Earth on power socket, Prepare the circuit to glow the lamp, Construct a test lamp and use it to mains, Build the series and parallel connections of resistors and calculate the resistance, Visit the shop or website of air conditioner and list the specifications, Demonstrate the use of various tools required for installation and servicing of air conditioner. Organise the tools and parts of AC to be taken at customer location Develop optimum route plan for maximum target achievement. Perform site visit and gather the information for installation of AC. Prepare wiring diagram as per the site requirement. Identify the appropriate wire to be used for installation of given AC Demonstrate to install the split AC and window AC.	50	40



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3.	Demonstrate the test run. Demonstrate the various features of remote to the customer Samples of post installation documents and records Demonstrate the functions, features, warranty, and other details to the customer	25	15
4.	Demonstrate to check electrical earthing. Identify and list different hazards related to installation and repair of AC. List and use the organisational safety guidelines while installation and repair of AC. Demonstrate the use of safety and protection equipment Demonstrate the use of first aid to provide the basic first aid Identify and report any accident injury or hazard	20	10
5	Identify electromechanical assembly, Identify different types of assembly, List the general guidelines for electromechanical wiring, Demonstrate the panel assembly process	15	10
Total		150	100

Suggested Specification Table with Marks (OJT):

Distribution of OJT Marks					
R Level	U Level	A Level	N Level	E Level	C Level
50	45	30	45	30	0

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

References :

1. <https://psscive.ac.in/storage/uploads/curriculum/pdf/english/field-technician-air-conditioner-english.pdf>
2. <https://www.cstaricalcutta.gov.in/>

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