

Revised Curriculum for Multi Skill Foundation Course for Class 10th for AY 2020-21

Multi Skill Foundation Course MLT/Q0001 (Class X)

*NOTE: Following topics will not be assessed in the theory examination –

UNIT 1 (Session 4,7,8)	These topics can be assessed for the knowledge & performance evaluation during the Practical examination only.
UNIT 2 (Session 2,8)	
UNIT 3 (Session 4)	
Unit 4 (Session 4,6)	
Unit 1 (Session 6)**	As per the curriculum, students are only expected to observe the demonstration given by teacher. Hence, this topic will be assessed for only knowledge evaluation by means of viva during practical examination.

Revised Curriculum/Topics for Class X:

Unit	Session	Practical
1-Workshop & Engineering Techniques	1. Introduction of Engineering Drawing Instruments	• Identification and use of Engineering Drawing instruments
	2. Engineering Drawing (Orthographic & Isometric Projection)	• Draw plan, elevation of simple objects (Cone, Cylinder, Cube)
	3. Safety Precautions In Engineering Workshop	• Demonstrate the use of necessary safety measures inside engineering workshop.
	4. Introduction To Engineering Measurement Instruments*	• Demonstrate the use of Engineering measurement Instrument (Vernier Caliper, Outside micrometer, Vernier height gauge)
	5. Types Of GI Pipe Fittings	• Carry out GI piping using threading, coupling two or more pipes using different fittings
	6. Welding Technique & Welding Joint Test** (Simulation or observation only)	• Teacher to provide demonstration of preparing welding joints (T- fillet joint, Open corner joint, Single V butt joint) and students are only expected to observe (Simulation or observation only)
	7. Basic Techniques In Building Construction -Ferro Cement Sheet*	• Prepare Ferro cement items like sheet, tank, wall etc.
	8. Making Of RCC Column*	• Prepare RCC column
	9. Costing Of Construction	• Calculate costing of construction
	10. Plastering And Painting	• Plaster an area of 1 sq. meter
2- Energy & Environment	1. Introduction To Electrical Techniques And Practices	• Prepare series & parallel electrical circuit
	2. Introduction Of Electric Pump, DOL Starter, And Inverter*	• Identify different parts & working principle of inverter • Identify different parts & working principle of motor/pump • Demonstrate installation of DOL/Starter to motor
	3. Solar Energy	• Identify the various components & working principle of solar devices

	4. Demonstrate The Functioning And Operation Of A Petrol Or Diesel Engine	<ul style="list-style-type: none"> Identify the various components & working principle of Petrol & Diesel Engine
	5. Bio Gas Concept And Use	<ul style="list-style-type: none"> Identify the various components of biogas plant and prepare biogas from biomass Making of charcoal using biomass
	6. Water Conservation Concept	<ul style="list-style-type: none"> Identify & study the different components of rain water harvesting system
	7. Rainfall Measurement Method	<ul style="list-style-type: none"> Make a rain gauge using plastic bottle & funnel
	8. Land Survey Method*	<ul style="list-style-type: none"> Use plain table /dumpy level to mark contours
3-Gardening, Nursery and Agriculture Techniques	1. Nursery Technique	<ul style="list-style-type: none"> Prepare seed bed Demonstrate different grafting methods
	2. Irrigation & Water Conservation Methods	<ul style="list-style-type: none"> Demonstrate the knowledge and application of different irrigation & water conservation methods (surface irrigation, Furrow , basin, sprinkler & drip irrigation) Demonstrate installation & maintenance of drip/sprinkler irrigation system
	3. Interpreting Result Of Soil Testing	<ul style="list-style-type: none"> Demonstrate the procedure for collecting soil sample & interpret the results of soil test
	4. Artificial Insemination*	<ul style="list-style-type: none"> Identify breeds used for artificial insemination
	5. Prepare Fodder For Animals	<ul style="list-style-type: none"> Prepare fodder for animals
4-Personal Health & Hygiene	1. Balanced Diet	<ul style="list-style-type: none"> Identify different nutrition deficiency diseases
	2. Personal Health & Hygiene And Community Health & Mental Health	NA
	3. Communicable & Non-Communicable Diseases, Vaccination, Dehydration And Emergency First Aid	<ul style="list-style-type: none"> Prepare O.R.S solution Prepare Emergency FIRST AID kit & learn to use FIRST AID kit
	4. Blood & Blood Group-Basic Information And Blood Pressure And Measuring Hemoglobin (Simulation or observation only)*	<ul style="list-style-type: none"> Teacher to provide demonstration of blood group testing and students are expected to only observe (Simulation or observation only) Teacher to provide demonstration of Blood Hemoglobin testing and students are expected to only observe (Simulation or observation only) Determine blood pressure using blood pressure machine
	5. Community Health & Environment Care (Awareness Programs For People With Special Needs And Family Health And Health Planning)	<ul style="list-style-type: none"> Calculate medical health expenses of a family
	6. Pollution-Sources, Effects And Solutions And Water Quality Testing*	<ul style="list-style-type: none"> Perform water quality test using H2O strip testing kit
	7. Food Products (Handling Of Food Products, Perishable & Non-Perishable Food, Packed & Loose Food And Fresh & Stale Food Product	<ul style="list-style-type: none"> Identify Perishable & Non Perishable food Identify the hygienic practices adopted for handling of food. Develop & administer a questionnaire on food habits & hygienic practices

