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	• Identify the various components & working principle of Petrol & Diesel Engine
	5. Bio Gas Concept And Use	• Identify the various components of biogas plant and prepare biogas from biomass • Making of charcoal using biomass
	6. Water Conservation Concept	• Identify & study the different components of rain water harvesting system
	7. Rainfall Measurement Method	• Make a rain gauge using plastic bottle & funnel
	8. Land Survey Method*	• Use plain table /dumpy level to mark contours
3-Gardening, Nursery and Agriculture Techniques	1. Nursery Technique	• Prepare seed bed • Demonstrate different grafting methods
	2. Irrigation & Water Conservation Methods	• 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	• Demonstrate the procedure for collecting soil sample & interpret the results of soil test
	4. Artificial Insemination*	• Identify breeds used for artificial insemination
	5. Prepare Fodder For Animals	• Prepare fodder for animals
4-Personal Health & Hygiene	1. Balanced Diet	• 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	• 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)*	• 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)	• Calculate medical health expenses of a family
	6. Pollution-Sources, Effects And Solutions And Water Quality Testing*	• 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	• Identify Perishable & Non Perishable food • Identify the hygienic practices adopted for handling of food. • Develop & administer a questionnaire on food habits & hygienic practices