SKVV : SYLLABUS FOR TRADE IN VOCATION TRAINING CERTIFICATE PROGRAM

DURATION: SIX MONTHS TRADE : ARCHITECTURAL ASSISTANT

FIRST SEMESTER 1

Course Code No.	Trade Practical 01 (Building construction + Graphic presentation)	Trade Theory 01 (Building construction + Surveying)
VTC AA- 101	 Importance of safety and general precautions observed in the institute and in the section Importance of the trade in the development of the country's infrastructure All necessary guidance to be provided to the new comers to become familiar, with the working of training institute 	 Familiarization with the institute Importance of trade training Introduction to the trade and professional prospects Recreational medical facilities and other extracurricular activities of the institute Types of jobs made by the trainees in the trade
VTC AA- 102	GP •Lettering – basics, vertical and inclined, forms and proportions, types of lettering strokes, composition, fonts (Gothic, Roman etc), writing sentence •Sketches of landscape / monuments with water colours, pencil colours, crayons	 Importance of lettering, writing of letters and figures, sizes, proportion, etc. as per IS code Free hand sketching
VTC AA- 103	 Brick masonry Sizes of brick and brick tiles English and Flemish bond- for half brick thk. and one brick thk. wall 	BC – Brick masonry • Technical terms used • Principle of construction of bonds • Scaffolding • Tools and equipments used
VTC AA- 104	Stone masonry Coarsed and uncoarsed rubble and random rubble masonry Ashlar - chamfered masonry 	BC - Stone masonry • Technical terms • Principles of stone masonry • Classification of stone masonry
VTC AA- 105	Foundation • Types of foundation (pile, raft, spread, mat, column, retaining wall)	 BC – Foundation Purpose, causes of failure of foundation, bearing capacity of soils, dead load, live load Types of foundation (pile, raft, spread, mat, column, retaining wall) Setting out of building on ground excavation, shoring and simple machine
VTC AA- 106	 GP Color wheel – primary, secondary, tertiary colors Color schemes – monochromatic, tones and shades in any creative pattern Composition of pattern using different textures using different grade of pencils (H,HB,B,2B etc) 	Carpentry Joints •Technical terms •Classification of joints (lengthening spliced or longitudinal joints, bearing joints, angle or corner joints, oblique – shouldered joints, widening or side joints) and its uses in wood work GP •Definition of color •Qualities of color

		•Color wheel
		Properties of color
		Methods of pencil use
VTC AA-	222	Pencil grades
107	DPC	Damp proof course
	•Detail at plinth level, on terrace and basement floor	• Sources of dampness
	Carpentry joints	•Effects of dampness
	•Detail sketches of various types of carpentry joints	•Method of prevention of dampness in building
		Periodic repair and care for prevention
VTC AA-		Anti termite treatment
108	Doors	Doors
	•Details of Paneled door, flush door, batten and ledged	• Size of doors
	door	•Door frame
	Visit to any Construction site for better exposure to	•Types of doors
	details	Windows
		• Size of window
VTC AA-	NR-starre	Classification of windows
109	Windows	Surveying
	•Casement window, louvered window, ventilator and	Introduction
	its details	Classifications
		Plane survey Durpass of survey
VTC AA-	Curricy ding	Purpose of survey - instruments used Chain Survey
110	Surveying	Chain Survey
	Drawing of conventional signs used in engineering	•Testing of chain, direct ranging, indirect ranging,
	survey, cadastral survey	degree of accuracy
	 Topography and building drawing Practice in unfolding and folding chain, errors and 	Compass surveying
	adjustment of chains, alignment of chain / error	•Prismatic compass, surveyors compass, advantages and disadvantages
	chaining lines – measurements of distance between	Plane table survey
	given points and their entry in field book	•General, instrument used, advantages and
	•Practice in chaining and taking off – set, use of optical	disadvantages, orientation, methods used
	square and cross staff setting out right angles – booking	Levelling
	of measurements testing of chain , tape, optical square	Introdiction in levelling
	and cross staff.	•Types of levelling and levelling staff
	Compass survey	Total survey station
	•Determining the bearings of a given line Observe the	•Components used in total survey station
	bearings of a given triangular plot	•Advantages of total survey station
	Plane table surveying	•Electronic notebook
	Practice on plane tabling by radiation method	
	Practice on plane tabling by intersection method	
	Levelling	
	•Determine the RL of a given two visible points from	
	the given BM by simple levelling	
	• Determine the RL of a given points from a single	
	instrument position	
VTC AA-	Project work / site visit	
111	 Project work on a single floor residence with furniture I 	ayout – plan, front elevation and section (Single line
	diagram to be made available)	
	• Site visit to any of the construction site to observe the o	details