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	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
		Pencil grades
VTC AA- 107	DPC	Damp proof course
107	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
		Anti termite treatment
VTC AA- 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-	Windows	Classification of windows Currenting
109	Casement window, louvered window, ventilator and	Surveying • Introduction
	its details	Classifications
	its details	•plane survey
		Purpose of survey - instruments used
VTC AA-	Surveying	Chain Survey
110	 Drawing of conventional signs used in engineering 	•Testing of chain, direct ranging, indirect ranging,
	survey, cadastral survey	degree of accuracy
	Topography and building drawing	Compass surveying
	Practice in unfolding and folding chain, errors and	Prismatic compass, surveyors compass, advantages
	adjustment of chains, alignment of chain / error	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 Electronic notebook
	Plane table surveying • Practice on plane tabling by radiation method	• 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	details