

SKVV : SYLLABUS FOR TRADE IN VOCATION TRAINING CERTIFICATE PROGRAM

DURATION: SIX MONTHS

TRADE : PLATE MAKER CUM IMPOSITER

FIRST SEMESTER

Course code no.	Trade Practical	Trade Theory
VTC PMCI101	To familiarize and identify the general tools and equipment used in the printing industries. To get awareness of printing material through identification and observation. Discriminate, differentiate and categories the printing material into various printing categories.	To acquire the historical development of printing through references. To understand the scope and purpose of each level of small to medium and big printing industries. Learning importance of printing technology. Definition and principle of various type of printing,
VTC PMCI102	Observation and familiarization of image designing, Image generation, Image conversion and Image setting, preparation of image carrier, image transfer and Image finishing.	Analyzing and comparing of image designing, Image generation, Image conversion and Image setting, preparation of image carrier, image transfer and Image finishing.
VTC PMCI103	Mixing the chemicals, making the coating solution. Proper use of photochemical process, equipment and material used for plate making and offset printing.	Description of material and preparation of solution for surface plate making. Photochemical process, classification, equipment and material used for plate making and offset printing.
VTC PMCI104	Identification, observation and understanding of, balance contrast, proportional, unity, optical centre, upper and lower case character, ascender and decenders and other element of alphabets	Define unit for measuring typology, balance contrast, proportional, unity ,optical centre, upper and lower case character, ascender and decenders and other element of alphabets
VTC PMCI105	Measuring and observing to understand term like strokes, stress and serif. Assessment of no. of pages in terms of printing page, width of printed area, length of page and length of printed area, no. of character in a line and fonts size.	Classification of type faces. Parts of type face. Type of fonts. Description of width, length and character of printing page and printing area and font size.
VTC PMCI106	To understand and identify the major component of the computer system and characteristics of software and hardware. Identification and functioning of various storage devices. Operation of different kinds of printers.	Knowledge of computer architecture , memory, CPU, input and output devices, MS office and MS word. To learn about the various storage devices of the computer. To know about impact and non impact printer. Advantage of laser printer
VTC PMCI107	Observing, Identifying and performing operation on DPT composition process. Awareness about internet application e-mail, fasci –mail EDI ,Talk write, web application, web browser etc	Familiarization of page maker and other DTP package composition process. Knowledge of internet e-mail, fasci –mail EDI ,Talk write ,web application, web browser etc
VTC PMCI108	Practice on basic of page maker and quark press job, creating style sheet, Importing of texts and graphics, Master pages and multiple master pages, imposition of pages and layers.	Knowledge about basic of page maker and quark press job, creating style sheet, Importing of texts and graphics, Master pages and multiple master pages, imposition of pages and layers.
VTC PMCI109	Demonstrate skill of performing on photo shop, its various tools, illustrator and corel	To learn basic of photo shop, overview of various tools, illustrator and corel draw, creating various image and

	draw, creating various image and monograms. Practice on graphic arts software.	monograms. Introduction of software for graphic arts.
VTC PMCI110	Observing, comparing and identifying the type, measurement and copy fitting in different method.	Knowledge of type, measurement and copy fitting in different method.
VTC PMCI111	Discriminating and identifying fake color, flat colour, tints, surprints, reverse and bleeds.	Describing and differentiating colour printing method. Knowledge of fake color, flat colour, tints, surprints, reverse and bleeds.
VTC PMCI112	Use, care and handling of punch register, whirler, and drier, printing down frame, exposure machine, graining and step wedges.	Knowledge and process of punch register, whirler, drier, printing down frame, exposure machine and graining machine and step wedges.
VTC PMCI113	Uses and demonstration of plate graining equipment with chemical, mechanical, sand blast and electro gain. Demonstration of coating solution for deep etches plate.	Plate graining equipment and type of material used: chemical, mechanical, sand blast and electro grain etc. to ascertain the quality of grain. To know about the quality of coating solution for deep etched plate.
VTC PMCI114	Analyzing, comparing, measuring and understanding the procedure of cutting a mask. Preparing a multi colour paste up, reverse and sun print.	Procedure of mask, multi colour paste up, reverse, sunprint.
VTC PMCI115	Demonstrating the process of colour photography, additive and subtractive colour pattern. Observing and understanding the colour filters. Understanding the screen angle in colour separation.	Definition of light colour additive and subtractive. Theory of colour filter. Screen angle used in color separation
VTC PMCI116	To familiarize primary step in electronic colour separation including scanning, modification, analysis, editing, storing image and exposure. Understand traditional, electronic and achromatic separation.	Knowledge of electronic colour separation including scanning, modification, analysis, editing, storing image and exposure. Learn about traditional, electronic and achromatic separation.
VTC PMCI117	To demonstrate image setter, automatic and on line processor.	Learn the image setter, automatic and online processor
VTC PMCI118	Observation and understanding of four unit of printing press.	To know about four unit of printing press. These units are feeder, registration, and printing and delivery unit.
VTC PMCI119	Selection of subtract used in offset printing. Demonstration of offset print component. Show process drying, impression rollers and blankets. Selection of Ink variables and differences of ink for printing Application of flexography in label printing. Use, care and handling of automatic plate processor	Knowledge of subtract used in offset printing. Offset printability. offset print component. Principle of drying, impression rollers and blankets. Ink variables and differences of ink for printing Knowledge of flexography. Familiarization with the process and sequence of operation of automatic plate processor
VTC PMCI120	Familiarization of development of screen printing. Identification of screen printing presses. To recognize the material used in screen printing and suitability of job for screen painting.	Knowledge of development of screen printing. Classification of screen printing presses. To know the material used in screen printing and suitability of job for screen painting.
VTC PMCI121	Project Work / Industrial Visit (Optional)	

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Second SEMESTER

Course code no.	Trade Practical	Trade Theory
VTC PMCI201	Handling, care and use of pre sensitized plate.	Knowledge of kind and material used in pre sensitized plate.
VTC PMCI202	Proper uses with safety precaution of chemical and solution used for light sensitivity of surface and deep etched plate, whirler, P.S. Plates, wipe on plate, photopolymer plates, multi metallic plates and xerographic polyester plates.	Familiarization of chemical and solution used for light sensitivity of surface and deep etched plate, whirler, P.S. Plates, wipe on plate ,photopolymer plates, multi metallic plates and xerographic polyester plates.
VTC PMCI203	Show the light sources: Kinds, exposure, printing down frame and their effective uses.	To know about the different kind of light sources and their effect on the printing
VTC PMCI204	Demonstration of photo integrator, inverse square law and law of reciprocation and its effect on printing.	Define photo integrator, inverse square law and law of reciprocation.
VTC PMCI205	Show proper proof and transfer process by proofing: Mechanical and operational feature, hand transferring of image.	Description of proof and transfer process by proofing: its kind, mechanical and operational feature, hand transferring of image.
VTC PMCI206	Practice on various kinds of printing machine for offset printing: mechanical and operational feature, inking and damping system.	Knowledge of printing machine for offset printing: its kind, mechanical and operational feature, inking and damping system.
VTC PMCI207	Proofing: practice of checking colour density by density meter	Define process of checking colour density with densitometer.
VTC PMCI208	Use of pre-maker ready equipment and their care.	Familiarization of pre-maker ready equipment and their care.
VTC PMCI209	Practice of step and repeat process of machine.	Description of step and repeat process of machine.
VTC PMCI210	Practice on single perfector offset printing machine(Sheet fed).	To know about Single colour perfector offset printing machine(Sheet Fed)
VTC PMCI211	Proper uses and handling of the plate and blanket, setting the lays, damping, inking, automatic feeders, setting and adjustment of cylinders.	Knowledge of fixing the plate and blanket, setting the lays, damping, inking, automatic feeders, setting and adjustment of cylinders,.
VTC PMCI212	Practice on printing of lines, half tons and multi colour works, / fanning paper, and use of pre use ready equipments.	Familiarization of printing of lines, half tons and multi colour works, / fanning paper, and pre use ready equipments.
VTC PMCI213	Preparation, handling and treatment of nap roller.	State kind, setting, cleaning, storing of nap rollers.
VTC PMCI214	Practice on division and sub division of paper. Seasoning of paper and paper calculation.	Selection of standard size of paper: its kinds and qualities.
VTC PMCI215	Handling and use of proper qualities of ink for printing.	Ability to select the proper quality of ink for printing.
VTC PMCI216	Identify the problem in plate making/ printing and their remedies. Checking the safety hazards in plate making and machine room: preventive measure including fire safety.	To know the problem in plate making/ printing and their remedies. Knowledge of safety hazards, fire and first aid safety.
VTC PMCI217	Visit to government, commercial and other advance printing press.	