



Plastics Mould Manufacturing - Assistant

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Plastic Mould Manufacturing - Assistant", in the "Petrochemical" Sector and aims at building the following key competencies amongst the learner

Program Name	Plastics Mould Manufacturing - Assistant		
Qualification Name & Reference ID.	CPC/Q5703		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	Minimum qualification –8 th Pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Perform and able to finish different mould parts • Able to finish core and cavity • Able to operate different type of machine like lathe, milling, EDM, And wire frame etc. • Able to operate CNC milling, lathe ,EDM,& wireframe etc • Able to polish and assemble the mould • Able to Assist to take trial of the mould in different moulding machine(as per required) • Maintain a Healthy & Safe, Secure work Environment • Work Effectively in a team 		

This course encompasses 06 out of 06 Learning Outcomes (LO) of "CPC/Q5703" Qualification Document.

Sr. No.	Module	Theory Duration (hh:mm)	Practical Duration (hh:mm)	Key Learning Outcomes	Corresponding LO Code	Equipment Required
1	Industrial Safety & Practices	9	21	Comply with Environmental & Safety Policies of Organisation, Identify personal safety , Job Safety & Machine Safety, Coordinate with other resources at the workplace to achieve the healthy, safe and secure environment for all incorporating all government norms esp. for emergency situations like fires, earthquakes etc. identify and correct any hazards like illness, accidents, fires or any other natural	CPC/ N 5701	1. Hand gloves, goggles, Earplugs, Helmet, Fire extinguishers etc. 2. Safety charts 3. First-aid kit 4. LCD Projector, White Board with marker



				calamity safely and within the limits of individual's • Authority		and duster, charts etc. 5. Computer & pen drives for conduct class
2	Engineering Drawing & Practices	24	56	Can able to Read the Job Drawing/ Blue Print & Dimensional Tolerances	CPC/ N 5702	1. Drawing Board 2. Mini-Drafter 3. Pencil 4. Engineering geometric instruments 5. Drawing Sheets 6. Computer Hardware and Auto-CAD software 7. LCD Projector, White Board with marker and duster, charts etc. 8. Pen drives, computers etc. for conduct of class
3	Hand Tools & Measuring Instruments study and practice	30	70	Can able to Handle different types of Hand Tools , Job setting devices, Can able to measure the jobs dimensions using Different measuring instruments like Vernire Callipers, Micrometer, Dial Gauge, Surface Gauge etc	CPC/ N 5703	Hand Tools like files, Hacksaw, Chisel, Hammer, Punch, etc. And measuring instruments like Vernier calliper, micrometer, surface gauge etc.
4	Study of Types	18	42	- Hand injection mould, Two	CPC/ N5704	Laptop &



	of Injection Moulds			plate Automatic mould - Direct Sprue injection - Single Impression - Multi Impression - Side Gated - Three Plate Moulds - Standards bolsters - standard mould parts - mould design check list.		Projector and Two plate mould model and three plate mould model.
5	Basic study of Compression Mould	6	14	Types of compression mould, open flash, semi-positive type, positive	CPC/ N 5704	Laptop & Projector and compression mould model
6	Basic study of Transfer Mould	6	14	Types of transfer moulds, integral pot transfer mould, auxiliary ram transfer	CPC/ N 5704	Laptop & Projector and Transfer mould model
7	Basic study of Blow Mould	6	14	Types of Blow Moulds - Extrusion - Injection and Stretch Blow Moulds - Blow Ratio	CPC/ N5704	Laptop & Projector and Blow mould model
8	Mould polishing practice	18	42	Type of polishing, different type of polish kit and their application	CPC/ N 5705	Laptop & Projector and Polishing Kit.
9	Mould assembly practice	18	42	Assembly of various type of mould with application	CPC/ N 5705	Laptop & Projector and Mould Model
10	Work Effectively in a Team	9	21	Can Interact & communicate effectively with colleagues including member in the own group as well as other groups	CPC/ N 5706	Charts 2. LCD Projector, White Board with marker and duster, charts etc. 3. Pen drives, computers etc. for conduct of class
Total Duration:		<u>144</u>	<u>336</u>	Unique Equipment Required:		

Grand Total Course Duration: **480 Hours**