

CRITERIA FOR ASSESSMENT OF TRAINEES

Qualification Document: Advanced Plastics Mould Manufacturer (Level 4)

Sector: Petrochemical

Assessment Guidelines:

1. Criteria for assessment for each Qualification Document will be created by CIPET.
2. Each Performance Criteria (PC) will be assigned marks proportional to its importance in Learning Outcome and few performance criteria may be allotted marks in combine.
3. Each Learning Outcome will be assessed both for theoretical knowledge and practical which is being proportionately demonstrated in the table below.
4. The assessment for the theory part will be based on knowledge bank of questions created by CIPET which will contain multiple choice theory questions and Practical question database with mark allotment criteria.
5. To pass the Qualification Pack, every trainee should score a minimum of 50 % in Functional and all Generic Learning Outcome's.
6. In case of successfully passing only certain number of Learning Outcome's, the trainee is eligible to take Subsequent assessment on the balance Learning Outcome's to pass the Qualification Document.

Title of the Component: Advanced Plastics Mould Manufacturer (Level 4)

Assessable Outcome		Assessment Criteria for the outcome		
LO	Performance Criterion Description	Theory	Practical	Total
CPC/ N 5801A: To maintain a safe and Healthy work environment at Workplace	PC1. Identify activities which can cause potential injury through sharp objects, burns, fall, electricity, gas leakages, radiation, poisonous fumes, chemicals, loud noise etc.	2	7	10
	PC2. Identify areas in the plant which are potentially hazardous/ unhygienic in nature	2	7	10
	PC3. Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine	2	14	20
	PC4. Inform the concerned authorities about the potential risks identified in the processes, workplace area/ layout, materials used etc.	2	7	10

	PC5.Maintain a clean and safe working environment near the work place and ensure there is no spillage of chemicals, production waste, oil, solvents etc.	2	7	10
	Sub total	10	42	60
CPC/N 5802A: To understand basic concepts of Engineering drawing & Can able to study the Job Drawing/ Blue Print & Dimensional Tolerances job	PC1.To interact with the head mould maker & understand the mould drawing	3	7	10
	PC2. To ensure availability of Tools and Raw materials for production in sufficient quantity as per production plan/operators instructions	3	7	10
	PC3. Understand the Assembly Drawing & Detail Drawing of Mould / Mould Parts	3	14	20
	PC4.Understand the Tools Required for executing the required Mould Making Process and ensure that the same is available in shop floor	3	7	10
	PC5.Understand the Tools Required for executing the required Mould Making Process and ensure that the same is available in shop floor	3	7	10
	Sub total	15	42	60
CPC/N 5803A: Assist in performing the Mould making Process by use of different types of Hand tools	PC1.Perform Handling & Using of Different Hand tools	3	14	20
	PC2.Hands on Skill & Accruing Practices on measurement of Mould Parts	3	7	10
	PC3.Select Different tools for particular job	3	7	10
	PC4.Perform to handle the vernier Caliper, Micrometer etc.	3	7	10
	PC5.Can able to set job on different types of vices.	3	7	10
	Sub total	15	42	60

CPC/N 5804A: Study of Types of Plastics Mould	PC1.Study of Two Plate Injection Mould & Three Plate Injection Mould	6	21	30
	PC2.Study of Mould Feed System, Types of Gate	3	7	10
	PC3.Study of Different types of cooling System	3	7	10
	PC4.Study of Different ejection system of Mould.	3	7	10
	Sub total	15	42	60
CPC/N 5805A: Basic Machine Operation Skill to Manufacture Mould Parts and study Metal cutting & Cutting tools	PC1.To Operate the Lathe Machine & to perform different operation	3	7	10
	PC2.To Operate CNC Lathe	3	7	10
	PC3.To Operate the Milling Machine & to perform different operation	3	7	10
	PC4.To operate CNC Milling machine to perform different operations	3	7	10
	PC5.To grind the Mould Plates & Inserts using Surface Grinding machine	3	7	10
	PC6.To Operate the Cylindrical Grinding & to perform different operation	3	7	10
	Sub total	18	42	60
CPC/N 5806A: To Study about mould polishing & mould assembly	PC1.Polish the core and cavity	3	21	30
	PC2.Polish the mating parts of mould	3	7	10
	PC3.Identify the mould parts	3	7	10
	PC4.Assemble the mould independently	3	7	10
	Sub total	12	42	60
CPC/N 5807A: Work Effectively in a Team	PC1.Accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	2	14	20

	PC2.Accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt	2	7	10
	PC3.Give information to others clearly, at a pace and in a manner that helps them to understand	2	7	10
	PC4.Display appropriate communication etiquette while working	2	7	10
	PC5.Consult with and assist others to maximize effectiveness and efficiency in carrying out tasks	3	7	10
	Sub total	11	42	60
CPC/N 5808: Understand How to Operate NC Lathe& NC Milling Machine, Programming of CNC Lathe, Milling machine	PC1.Setting of Work Piece	5	12	10
	PC2.Setting of Tools & Tool Offset Calculation	5	12	10
	PC3.Graphic Run of CNC Tool Path Programme	5	12	10
	PC4.Dry Run of Machine Tool	5	12	10
	PC5.Running the programme in Full sequence	5	12	10
	PC6.To perform different operations on machine	5	12	10
	Sub total	30	72	60
CPC/N 5809: Understand How to Operate EDM Machine	PC1.Setting of Work Piece	2	7	10
	PC2.Setting of Tools & Tool Offset Calculation	2	7	10
	PC3.Calculate Spark Gap	2	7	10
	PC4.Dial the both Electrode and job	2	7	10
	PC5.Running the programme in Full sequence	2	7	10
	PC6.To perform different operations on machine	2	7	10

	Sub total	12	42	60
CPC/N 5810: Basics of computer and data entry in MS OFFICE/office Open source suite software	PC1.Fill and process mandated forms for receiving, processing, or tracking data, enter data from source documents (such as trial report, process sheet etc.) in to Computer application having MS OFFICE software/Office Open source software.	2	7	10
	PC2.Scan source documents in accordance with specific instructions.	2	7	10
	PC3.Verify data entered with source documents, checks for compliance and corrects all typographical errors and missing or repeated data.	2	7	10
	PC4.Maintain files of source documents or other information related to data entered.	2	7	10
	PC5.Update database information to reflect most current source information	2	7	10
	PC6.Respond to requests for information and access relevant files	2	7	10
	Sub total	12	42	60
	Total	150	450	600

Means of Assessment 1:

The assessment comprise of :

- Theory
- Viva-voce
- Practical assessment

Means of Assessment 2:

Pass/Fail –

The Pass mark of theory written assessment is 40% and for viva and practical assessment is 50%.
The candidate has to pass separately in Theory and Practical.

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