



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

PLASTIC PROCESSING OPERATOR

(Duration: One Year)

**CRAFTSMEN TRAINING SCHEME (CTS)
NSQF LEVEL- 4**



SECTOR – CHEMICALS AND PETROCHEMICALS



Directorate General of Training

PLASTIC PROCESSING OPERATOR

(Engineering Trade)

(Revised in 2019)

Version: 1.2

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 4

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSE INFORMATION

During the one-year duration of Plastic Processing Operator trade, a candidate is trained on Professional Skill, Professional Knowledge, Engineering Drawing, Workshop Calculation & Science and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work and extracurricular activities to build up confidence. The broad components covered under Professional Skill subject are as below:-

The trainee learns about safety and environment, use of fire extinguishers, artificial respiratory resuscitation to begin with. He gets the idea of trade tools & its standardization, Familiarize with basic fitting, basic of electricity, identification of plastics. Skilling practice of injection moulding and compression moulding. The process of FRP and also construction of hydraulic circuits. They will also skilled with different project works. The trainee learns about process of Blow moulding, extrusion and thermoforming. They will skilled with rotational moulding process. They will also perform of construction of Pneumatic circuits. They will also skilled in fabrication of plastic and predrying process. They will also skilled with different project works.

5. LEARNING OUTCOME

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOMES (TRADE SPECIFIC)

1. Check and perform measuring, marking, Hack sawing, filling by using various measuring, marking, cutting and finishing tools following safety precautions.
2. Check and perform drilling, tapping, dieing by using different related tools.
3. Test and Perform basic electrical earthings with the accessories fittings on board.
4. Identify different plastic materials and test the properties of material by using various test apparatus.
5. Identify, set and produce good quality of injection moulding items and check the defects.
6. Identify, set, maintain and produce good quality of injection moulding items by using automatic injection moulding machine with the application of Microprocessor control and PLC.
7. Produce good quality of compression moulded items and check the defects by using compression mounding machine.
8. Identify and perform and different FRP processing techniques.
9. Identify and produce good quality of blow moulding items and inspect the finished product.
10. Perform simple pneumatic circuits.
11. Identify different parts, set and operate the blown film plant.
12. Operate the pipe plant and produce good quality pipe.
13. Operate the reprocessing plant and produce reprocessed granules.
14. Install and Operate thermoforming machine and identify cycle of thermoforming.
Produce good quality of thermoforming product and check the defects.
15. Produce good quality of rotomoulding product and check the defects.
16. Identify and Perform pre-drying process using different materials.
17. Carry out different machining operations on plastic sheets/blocks.