

PROCESS OPERATIONS – NQF LEVEL 3

Duration: 3 day + 2 days follow up
 Target: Operator / candidates competent in NQF Level 2
 Prerequisite: NQF Level 2
 NQF Info: NQF Level 3
 Qualification: National Certificate In Plastics Manufacturing NQF Level 3
 Credits: 18
 Certification: MERSETA accredited
 PFSA Certification.

Unit Standard:

- Perform routine operations on plastic manufacturing equipment [119162]
- Transport and care for tooling in plastics manufacturing processes[119142]
- Perform routine maintenance tasks on plastic manufacturing equipment[119174]

Course Objective:

To be able to perform routine operations, including maintenance on manufacturing equipment in the context of relevant plastic manufacturing processes e.g injection moulding, blowmoulding, extrusion, thermoforming, , rotational moulding, and relevant others.

Outcomes: At the end of the course the learners will be able to :

- Monitor equipment and material, conduct quality checks and resolve problems. Perform start up and shutdown procedures on the manufacturing equipment. Perform start up and shutdown procedures on the manufacturing equipment.
- Prepare for and perform purging and material or colour changeover procedures.
- Report and record information related to manufacturing equipment and operations.
- Discuss and explain issues related to manufacturing equipment and operations.
- Carry out routine checks on production machines and operations and perform routine maintenance activities. Update maintenance records. Prepare tooling for installation or storage. Determine requirements; select and transport tooling as well as assist with the installation of tooling.

Contents:

- Conduct quality checks include monitoring of product mass, dimensions, colour or any other critical part of the product specification, including instruments, measuring equipment and measuring gauges related to the product.
- Start up includes heat soak time, shutdown and purging (including responding to emergency situations). Checks include fluid levels, wear and tear, sharpness, leaks, damage to cables, pipes and hoses, connections and fittings, tooling, safety devices and switches. Use of tooling preparation includes fitting elements for moving, lifting and lowering tooling; cleaning, lubricating, use of release agents; processed material; polishing surfaces; applying corrosion inhibitors, covers and other protective devices. Tooling components include deckle bars; stripper plates, slides, cores, spacers, blow pins, mandrels

Assessment and Certification:

- Assignments to be submitted within two weeks following training. Two follow up days are required to give feedback on assessed assignments. A PFSA Certificate of Competence is issued to successful candidates
- Relevant credits may be awarded to successful learners upon MERSETA due approval process.

Gauteng: Head Office:
 Reg. No. 79/0607/08
 18 Gazelle Avenue, Corporate Park,
 Old Pretoria Road, Midrand
 Private Bag X68, Halfway House, 1685
 South Africa
 Tel: +27 11 314 4021
 Fax: | +27 11 314 3764

KZN: Building No. 2
 KZN Experimental College
 Corner Surprise and Richmond
 Roads
 Westmead
 Durban
 Telephone Number: 031 702 7222
 Facsimile Number: 031 702 7322

W.Cape: Unit D
 Olympic Park
 969 Voortrekker Road
 Maitland
 Cape Town
 Telephone Number: 021 591 5512
 Facsimile Number: 021 591 5516