

"PROCESS" MACHINE SETTINGS - SP0078/06-17 - NQF LEVEL 4

Duration: 9 days (Theory & Practical)
+ 1 day follow up
Target: Candidates competent in NQF Level 3
Prerequisite: NQF Level 3
NQF Info: NQF Level 4
Qualification: National Certificate In Plastics Manufacturing NQF Level 4
Credits: 30
Certification: MERSETA accredited
PFSA Certification.

Unit Standard:

- Set and adjust plastics manufacturing machine conditions to produce quality finished products [119155]
- Changeover & set up tooling for plastics manufacturing processes [119140]
- Monitor maintenance of plastics manufacturing equipment, tooling and services [119187]

Course Objective:

To perform product changeovers, set plastics manufacturing equipment, and adjust the machine setting in response to changes in the process. To perform the tooling changeover process. To monitor maintenance of plastics manufacturing equipment, tooling and services.

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

- Determine product and process requirements, plan the setting process and collect the necessary tools, instruments and materials.
- Set process parameters and start up manufacturing equipment to manufacture first offs. Conduct quality checks on manufactured products, determine conformance to standards and adjust machine settings for any deviations. Identify and resolve product-and process-related problems and respond to emergency situations or critical events. Hand-over the process to production staff, complete all relevant documentation and report incidents or issues. This includes cleaning, emptying channels and chambers, removal of heaters, (or other attachments such as hoses), attaching slings, eye bolts, bars, adaptor plates and rings. Perform calibration, and set up die gaps.
- Monitor the functioning of equipment, tooling and services during manufacturing operations and identify problems.

Contents:

- Product and process requirements include all specifications, setting and any other procedures, work instructions, production planning documentation, reading of drawings and sketches, applicable standards eg ISO 9000 and 14000. Plan includes performing calculations; preparing documentation such as requisitions; organising and arranging with other persons, such as assistants and operational staff. This includes use of tools include hand and power tools, measuring equipment such pyrometers, gauges, scales, polarising filters, ultra violet lights.
- Product and process requirements include all changeover & set up of tooling for plastics manufacturing processes, as well as the monitoring of maintenance of plastics manufacturing equipment, tooling and services.

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.

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