

ADVANCED RAW MATERIALS - NQF LEVEL 4

Duration: 5 days + 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: 22
 Certification: MERSETA accredited
 PFSA Certification.

Unit Standard:

- Prepare and process plastics materials for manufacturing [119186]
- Conduct laboratory tests on plastic raw materials and manufactured products [119184]

Course Objective:
 To prepare materials for the manufacturing process, and to take care of materials during the manufacturing process. To sample, prepare and test materials and products to ensure that the quality of the product conforms to the supplied specifications.

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

- Determine product, preparation and process requirements and obtain the materials. Prepare weighing and blending equipment and prepare material for the manufacturing process. Carry out quality checks on the prepared materials; label and store material.
- Monitor the use of the materials during the manufacturing process and arrange for material to be transported at appropriate intervals. Understand how material properties impact on all aspects of production processes, and the performance of the end-product. Understand importance of following test and data collection procedures. Determine test criteria from procedures manual and develop a testing schedule. Collect and verify samples and related information. Select appropriate test method and prepare the samples and the equipment for testing. Complete tests, interpret results, draw conclusions and compile reports. Care for test equipment, store samples and archive data.

Contents:

- Conformance to the manufacturer's specifications. Knowledge of the properties of additives, batches and grade variations in materials. To perform blending procedures and techniques. To know the consequences of incorrect blending, handling and storage of materials. To control spillage, wastage, & prevent contamination. To know the differences between formulations expressed as percentage, parts per hundred (resin) or ratios. To know sample receiving and checking procedures, and the testing process for each method. To know the test equipment used, applicable theory, reporting and documentation requirements, & sample storage procedures. To know the implications of poor testing and inaccurate data, the implications of making decisions inappropriate to the task, and to adhere to safety, health environmental procedures.

Assessment and Certification:

- Assignments to be submitted within two weeks following training. One follow up day is 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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