

INDUSTRIAL RUBBER MANUFACTURING

Duration:	5 days
Target:	Candidates competent in NQF Level 1
Prerequisite:	Basic Literacy and Numeracy [ABET 4]
NQF Info:	NQF Level 2
Qualification:	National Certificate in Polymer Compound Manufacturing NQF Level 2
Credits:	43
Certification:	merSETA-accredited Plastics SA Certification

Unit Standards

- Describe and apply fundamental processes in a polymer compound manufacturing environment [376920]
- Prepare industrial rubber manufacturing equipment [13160]
- Monitor the production process of polymer compound products [376922]
- Respond to changes in industrial rubber manufacturing processes [13161]

Objective of Learning Programme

To enable learners to identify, prepare and use equipment and machinery, and apply safety and quality practices, in polymer compound manufacturing processes, determine product quality requirements, visually inspect elements of the production process, and discuss and explain incidents and problems resulting from the visual inspection.

Specific Outcomes of Unit Standards

- Describe fundamental production processes and specialization areas in polymer compound manufacturing environment
- Identify and use equipment and machinery used, and identify and apply safety and quality practices, in a polymer compound manufacturing process
- Identify and apply safety and quality practices in polymer compound manufacturing process
- Plan production equipment preparation
- Prepare site for equipment set-up and equipment for use
- Produce first-off product while monitoring equipment indicators
- Identify problems and take corrective action
- Apply quality checks on completed work / pre-productions samples
- Record information on work done and report machine readiness
- Discuss and explain incidents and problems related to equipment preparation
- Work safely with due care for self, fellow workers, equipment, materials and the environment
- Determine product quality requirements in a polymer compound production process
- Conduct functionality checks on manufacturing equipment
- Visually inspect elements of the production process
- Describe incidents and problems resulting from the visual inspection of the production process and the quality of the product output
- Recognize and report changes and/or malfunctions
- Carry out housekeeping and simple maintenance as required by the process
- Monitor material flow and respond to shortages
- Check the product-in-process visually and respond to changes
- Determine output figures, record outputs, stoppages and changes and identify problems and take corrective action
- Discuss and explain incidents and problems related to the process, the materials and the products

Assessment and Certification

- Workplace Experience Assignments to be submitted within two weeks following training. A Plastics|SA Certificate of Competence is issued to successful candidates.
- Relevant credits may be awarded to successful learners upon merSETA due approval process.