

Production Tools and Equipment

Duration:	2 days
Target:	Machine operators, machine setters, machine maintenance personnel, raw materials and stock controllers
Prerequisite:	NQF 1 or Basic Literacy and Numeracy [ABET 4]
NQF Info:	NQF Level 2
Qualification:	Towards the National Certificate Production Technology NQF Level 2
Credits:	16
Certification:	merSETA-accredited Plastics SA Certification

Unit Standards

- Select, use and care for engineering hand tools (119744, 8 credits)
- Maintain stock levels and equipment and consumables (265001, 4 credits)
- Select, use and care for engineering measuring equipment (12476, 4 credits)

Objective of Learning Programme

Qualifying learner can select, safely use and care for a range of engineering tools used for checking, forming, cutting, marking and fastening tools and tooling aids.

The person accredited with this unit standard is able to procure and maintain stock levels of equipment and consumables required for manufacturing and assembly processes, and maintain a systematic stock information system.

Qualifying learners can identify units of measure commonly accepted within engineering industry, know the correct symbols and select, safely use and maintain a range of engineering measuring tools.

Outcomes

At the end of the learning programme, learners will be able to:

- Select and use engineering hand tools and measuring equipment
- Care for and maintain engineering tools and measurement equipment
- Work safely with due care for self, fellow workers, equipment, materials and environment
- Explain stock control concept; maintain appropriate stock levels
- Procure stock for a given period or specific contract, count and evaluate material stocked
- Explain and discuss basic units of measure and symbol
- Recognize and report problems, changes and/or malfunctions while working

Contents

- Basic measuring equipment
- Measurement of area and volume
- Hand tools
- Components of vernier, calliper, micrometer
- Dial gauge indicators, measurement of temperature and pressure
- Stock control and administration, supplier selection, assessment of inventory

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 (the learner must be registered with Merseta)