



### Purpose and rationale

The combination of learning outcomes that comprise this qualification will provide the qualifying learner with vocational knowledge and skills appropriate to the context of production technology. This qualification contributes to the industries in manufacturing and related fields, which will allow learners who achieve the qualification to contribute and function in areas such as production planning and control, systems and maintenance, quality and occupational health and safety. Learners who will typically embark on this qualification are individuals who have an interest in a career in production technology.

This qualification will add value to a specific manufacturing, engineering and technology context by complementing contexts specific qualifications within these sectors.

### Learning assumed to be in place

Communication and Mathematical Literacy at NQF Level 2, or equivalent. Demonstrated contribution to: achieving production specifications through optimising organisational structures, functions and processes; and to efficient and effective production by applying quality standards and procedures. Demonstrated understanding of production technology practices, terminology and systems as applied in manufacturing, engineering and technology.

### Modules covered

#### 1 – Communication

- Use language and communication in occupational learning programmes (SAQA 119467)
- Interpret a variety of literary texts (SAQA 119466)
- Interpret and use information from texts (SAQA 119457)
- Accommodate audience and context needs in oral / signed communication (SAQA 119472)
- Work as a Project Team Member (SAQA 120379)

#### 2 – Data Interpretation

- Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations (SAQA 9010)
- Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts (SAQA 9013)
- Investigate life and work-related problems using data and probabilities (SAQA 9012)

#### 3 – Support Functions to Production

- Use mathematics to investigate and monitor the financial aspects of personal, business and national issues (SAQA 7456)
- Identify and Explain Core Functions (SAQA 242814)
- Apply Quality Procedures (SAQA 13234)
- Identify and Explain the Principles of Logistics (SAQA 244504)
- Perform first line maintenance (SAQA 9913)

#### 4 – Understanding Roles and Functions in Business

- Explain the planning and scheduling of tasks in a production environment (SAQA 116218)
- Apply safety, health and environmental protection procedures (SAQA 13223)
- Prepare, set up and operate process equipment in a production environment (SAQA 259697)