

COURSE OUTLINE



BCONSULT

Further Education and Training Certificate: Production Technology Level 4

SAQA ID: 58779

Course Purpose

Production Technology refers to the use of machinery in manufacturing processes to simplify the work and improve productivity. Any technology that influences the production process is categorized as production technology.

Why study Production Technology level 4?

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, optimisation, systems and maintenance, logistics, 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. The production technology competencies incorporated in this qualification can also be offered as support skills programmes to incumbents in any other manufacturing, engineering and technology field qualifications

A Qualifying Learner will be able to:

- Promote, implement, and maintain procedures that support quality assurance and control.
- Solve operational problems in a production process.
- Contribute to budgeting processes in an operational unit to optimise resources.
- Measure, control and improve factors influencing productivity.

Who should study Production Technology level 4?

intended for personnel already employed and other learners who intend to follow a career in Production Technology. The unit standards classified as core may be added to other industry qualifications to provide a management focus and align qualifications to the work done by learners. Practical competence is within several contexts some of which may be non-routine. The focus is on comparison, choice, interpretation, and application of knowledge.

Production Technology level 4 potential careers

- Mechanic
- Artisan
- Production Staff
- Machine maintenance
- Machine Controller

Duration

This qualification is run over 12 months.



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Production Technology Level 4

Unit Standards

US	Name of Unit Standard
243025	Monitor machining process, interpret statistical process control charts, and rectify production problems.
114884	Co-ordinate the improvement of productivity within a functional unit
13952	Demonstrate basic understanding of the Primary labour legislation that impacts on a business unit
114877	Formulate and implement an action plan to improve productivity within an organisational unit
14586	Monitor and control quality control practices in a manufacturing/engineering environment
120375	Participate in the estimation and preparation of cost budget for a project or sub project and monitor and control actual cost against budget
116287	Schedule and monitor production
116284	Solve operational problems in a manufacturing / assembly context
12665	Control production and resource scheduling and planning in a manufacturing environment
116294	Determine manufacturing and assembly material requirements
9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems
9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts
7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues
119472	Accommodate audience and context needs in oral/signed communication
119457	Interpret and use information from texts
119467	Use language and communication in occupational learning programmes
119465	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems
119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts
119469	Read/view, analyse and respond to a variety of texts
119471	Use language and communication in occupational learning programmes
119459	Write/present/sign for a wide range of contexts

Production Technology Level 4

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