



Course Information

**National Certificate (GETC): Manufacturing,
Engineering and Related Activities**

National Certificate: Mechanical Engineering: Fitting and Machining

SAQA ID 23253

Level 1

Credits 124

Duration 1 year

This qualification specifies the key skills, knowledge and values required to access engineering and manufacturing qualifications in the Further Education and Training Band. It describes the learning outcomes required to participate in workplace-based learning programmes for occupationally focused qualifications in the manufacturing, engineering and assembly sectors.

It provides learners who have no formal qualification with an opportunity for assessment to

- Recognise prior learning.
- Identify gaps,
- Structure learning programmes to close those gaps.

The learning required for these learners would be what is typically included in ABET learning programmes.

Course Expectation

This is a learnership, and therefore has a theory and workplace component.

- Learners are expected to complete the theory at the training provider.
- The workplace component must be complete at a recognised workplace.
- The activities at the workplace will be determined by the workplace tasks that need to be completed.

Training Provider

Workplace

Selection of Workplace

Learners are required to ensure that they have secured a workplace. Whilst IQ supports learners in this endeavour, it is the learners responsibility.

The workplace selected must be in line with the course undertaken.

Learners will be provided with a pack that includes:

- Letter of request for placement
- Placement guidelines for Employer organisations

Training



Your course comprises of the following:

- Complete Learner orientation on the programme expectations.
- Mentor guidelines for the workplace mentors.
- Work integrated guidelines for the workplace.
- Learner orientation guide.
- Process meetings map with employers and mentors.
- Training plan including the schedule of assessments
- Process map for the qualification.
- Learner guides, workbooks and log books
- E-learning lessons/ PC Tablet (with audio voice lessons)
- Training videos to support lessons showing practical applications

Assessment

Assessments are an important part of your learning as it serves as a measure to identify if you have achieved the competencies required in this course.

Various assessment methods are used during the course of your programme. All these are collated into a Portfolio of Evidence which is used for the final summative assessment. Each module of your study will have an assessment of some form.

The workplace is assessed through a logbook. This comprises a list of tasks which needs to be completed and signed off by your workplace mentor.

Delivery Modality

The delivery modality is flexible and designed according to the needs of the client.

The following are some of the options:

Option 1

- Lessons are presented on a PC Tablet. These are recorded.
- All the learner guides and workbooks are on the PC Tablet.

Option 2

- E-learning. Lessons are on the e-learning platform and learners progress through them.

Option 3

Face to face tuition according to a training plan.



Programme Modules

ID		UNIT STANDARD TITLE	CREDITS
13996	Core	Identify, discuss, describe and compare major economic systems, with emphasis on the South African economy	2
13165	Core	Describe the properties of materials found in the workplace and describe their impact on the environment	6
13162	Core	Identify and describe inputs, outputs, stages and quality indicators of the manufacturing, assembly or engineering process	10
13995	Core	Demonstrate an understanding of contracts and their sources	2
13174	Core	Identify and discuss inappropriate behaviours in the workplace	2
13998	Core	Demonstrate an understanding of the principles of supply and demand, and the concept: production	2
13176	Core	Describe and discuss basic issues relating to the nature of business, the stakeholders in a business and business profitability	
13169	Core	Describe and discuss issues relating to HIV-AIDS, TB and sexually transmitted illnesses and their impact on the workplace	4
13171	Core	Describe and show how the NQF can help me to plan a learning and career pathway	5
13167	Core	Identify potential hazards and critical safety issues in the workplace	2
13159	Core	Care for, select and use hand and measuring tools	4
13172	Core	Understand the employer/employee relationship	3
12537	Core	Identify personal values and ethics in the workplace	4
13157	Fundamental	Read, interpret and understand information on a payslip	2
7449	Fundamental	Critically analyse how mathematics is used in social, political and economic relations	2
7461	Fundamental	Use maps to access and communicate information concerning routes, location and direction	1
7450	Fundamental	Work with measurement in a variety of contexts	2
7448	Fundamental	Work with patterns in various contexts	4

7447	Fundamental	Working with numbers in various contexts	6
7489	Fundamental	Show, explain, discuss and analyse the relationship between society and natural environment	4
7511	Elective	Analyse how scientific skills and knowledge contribute to sustainable use of resources	2
7452	Elective	Describe, represent and interpret mathematical models in different contexts	6
9357	Elective	Develop and use keyboard skills to enter text	4
7509	Fundamental	Apply basic concepts and principles in the natural sciences	5
7513	Fundamental	Assess the impact of scientific innovation on quality of life	2
7451	Fundamental	Collect, analyse, use and communicate numerical data	2
7508	Fundamental	Conduct an investigation in the natural science	4
7507	Fundamental	Demonstrate an understanding of the concept of science	2
7463	Fundamental	Describe and represent objects and the environment in terms of shape, space, time and motion	2
10229	Fundamental	Discuss development, utilisation and management of human and natural resources	4
12462	Fundamental	Engage in a range of speaking and listening interactions for a variety of purposes	3
12471	Fundamental	Explore and use a variety of strategies to learn (revised)	5
12473	Fundamental	Identify and respond to selected literary texts	5
12469	Fundamental	Read and respond to a range of text types	6
12470	Fundamental	Write for a variety of different purposes	6