



Institute for Quality

Education, Training and Development

Empowerment through Education



NC: Chemical Operations Level 2

Course Information

NATIONAL CERTIFICATE :CHEMICAL OPERATIONS
SAQA ID:58515
NQF LEVEL 2
CREDITS 135

This qualification builds onto the GETC: Chemical Operations. This competence builds onto the largely theoretical foundation laid at NQF Level 1, needed to take responsibility for a significant process in the chemical operations industry. It also provides the basis upon which further related learning and career development can take place.

Through the employment of competent operating personnel, employers and in turn the field and sub-field have confidence that this critical work in the industry is efficiently carried out.

Social development and economic transformation are enhanced through efficient production, and career development and personal job satisfaction of operating personnel are facilitated through the learning process used to achieve the competency specified.

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



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.



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PROGRAMME MODULES

ID	UNIT STANDARD TITLE	NQF LEVEL	CREDITS
244076	Apply elementary statistical process control principles	Level 2	6
244071	Apply sampling theory and practice	Level 2	5
244080	Apply standard operating procedures in a process environment	Level 2	10
244078	Demonstrate understanding of a work permit system	Level 2	3
244074	Demonstrate understanding of liquid-solid and solid-solid separation processes	Level 2	10
244075	Maintain the quality of products in a production environment	Level 2	5
244082	Monitor plant and equipment in a process environment	Level 2	10
12317	Read and adjust instruments on production or packing equipment	Level 2	7
244073	Receive, handle and store hazardous chemicals safely	Level 2	5
244079	Respond to emergencies in a process environment	Level 2	3
119463	Access and use information from texts	Level 2	5
119454	Maintain and adapt oral/signed communication	Level 2	5
119460	Use language and communication in occupational learning programmes	Level 2	5
119456	Write/present for a defined context	Level 2	5
9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	3
7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2	3
7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
9007	Work with a range of patterns and functions and solve problems	Level 2	5

CORE**FUNDAMENTAL**

ELECTIVE

115188	Apply environmental protection procedures	Level 2	4
114639	Control waste or effluent water in a manufacturing environment	Level 2	4
244077	Demonstrate understanding of chemicals in a processing environment	Level 2	6
244072	Demonstrate understanding of heat transfer equipment	Level 2	10
244083	Solve operating problems using relevant technologies	Level 2	5
113877	Understand fundamentals of electricity	Level 2	8
116937	Use a Graphical User Interface (GUI)-based spreadsheet application to create and edit spreadsheets	Level 2	4
117924	Use a Graphical User Interface (GUI)-based word processor to format documents	Level 2	5