



Institute for Quality

Education, Training and Development

Empowerment through Education



FETC: Chemical Operations

Course Information

FURTHER AND TRAINING CERTIFICATE :CHEMICAL OPERATIONS

SAQA ID : 78529 LP 58538

NQF LEVEL: 4

CREDITS 140

PURPOSE AND RATIONALE OF THE QUALIFICATION

This qualification is used to address the training needs for an internal process controller. This competence provides the skills 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 COMPRISE 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
117877	Perform one-to-one training on the job	NQF Level 03	4
244100	Apply integrated process control methods	NQF Level 04	15
244097	Demonstrate an understanding of the principles of work, energy and power in physics	NQF Level 04	6
244099	Demonstrate understanding of liquid-liquid and liquid-vapour separation processes	NQF Level 04	10
244102	Demonstrate understanding of water treatment processes	NQF Level 04	10
244105	Participate in a task team in a process environment	NQF Level 04	4
244089	Understand applications of Physical Chemistry in a processing environment	NQF Level 04	6
119472	Accommodate audience and context needs in oral/signed communication	NQF Level 03	5
119466	Interpret a variety of literary texts	NQF Level 03	5
119457	Interpret and use information from texts	NQF Level 03	5
119465	Write/present/sign texts for a range of communicative contexts	NQF Level 03	5
119459	Write/present/sign for a wide range of contexts	NQF Level 04	5
119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	NQF Level 04	5
119469	Read/view, analyse and respond to a variety of texts	NQF Level 04	5
119471	Use language and communication in occupational learning programmes	NQF Level 04	5
9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	NQF Level 04	4
9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	NQF Level 04	6
7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	NQF Level 04	6

CORE

FUNDAMENTAL

113909	Coach a team member in order to enhance individual performance in work environment	NQF Level 03	5
117132	Explain basic economics	NQF Level 03	3
9533	Use communication skills to handle and resolve conflict in the workplace	NQF Level 03	3
244104	Issue a permit to work in a process environment	NQF Level 04	4
244101	Use a panel or a computer interface to control a process	NQF Level 04	4
244103	Use automated control techniques to control a process	NQF Level 04	8
244106	Use standard operating procedures to control a process from a panel or computer interface	NQF Level 04	15