

## FURTHER EDUCATION AND TRAINING CERTIFICATE: OCCUPATIONAL HYGIENE AND SAFETY (NQF LEVEL 4)

<b>Introduction:</b> Learners accredited with this qualification will be able to identify, evaluate, advise and report on occupational environments, in order to maintain a high level of health and safety for workers in such environments		<b>Minimum of 10 learners, Maximum of 15 learners per course</b>
<b>SAQA unit standard ID number – 50063 (Level 4)</b>		
<b>Target group:</b>  All relevant production employees, artisans, or, as required per production needs, without previous certification	<b>Certification:</b>  <ul style="list-style-type: none"> <li>▪ Theoretical assessments = 80% pass rate</li> <li>▪ Practical assessments = Competent or Not Yet Competent</li> <li>▪ 2 re-writes allowed per module</li> </ul> <p style="text-align: center;"><b>If competent a certificate will be issued.</b></p>	<b>Duration:</b>  1 Year
<b>Entry Level Requirements:</b>  Minimum Literacy and Numeracy ABET 4 or NQF 3 or RPL, Grade 12		

### COURSE OUTLINE

#### FUNDAMENTAL MODULES

- Accommodate audience and context needs in oral communication
- Interpret and use information from texts
- Use language and communication in occupational learning programmes
- Write texts for a range of communicative contexts
- Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems
- Engage in sustained oral communication and evaluate spoken texts
- Read analyze and respond to a variety of texts
- Represent analyze and calculate shape and motion in 2 – and 3 – dimensional space in different contexts
- Use language and communication in occupational learning programmes
- Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues
- Write for a wide range of contexts

#### CORE MODULES

- Demonstrate knowledge and understanding of basic toxicological principles
- Demonstrate knowledge and understanding of human anatomy, physiology and pathology
- Demonstrate knowledge of airflow calculations and principles of airflow in a ventilation circuit
- Demonstrate knowledge of refrigeration principles and perform relevant calculations
- Demonstrate understanding of the implementation of occupational health, safety and environmental legislation in the work place
- Determine a fan characteristic curve, actual operating point and take appropriate action
- Evaluate extraction systems for efficiency and effectiveness
- Evaluate glare and recommend appropriate remedial action
- Measure characteristics of a noise source using an octave band frequency analyzer and recommend appropriate remedial action

- Measure hazardous biological agents and recommend appropriate remedial action
- Monitor and make recommendations on the application of health and safety principles regarding hazardous substances in the working place
- Monitor and make recommendations on the application of health and safety principles regarding lifting equipment in the working place
- Monitor and make recommendations on the application of health and safety principles regarding pressure vessels and pressure systems in the working place
- Prepare, implement and co-ordinate a personal gravimetric sampling programme and determine exposure risk
- Demonstrate knowledge of fan operating points for different configurations and influencing factors
- Monitor and make recommendations on the application of health and safety principles regarding the prevention of fires and protection systems in a working place

#### **ELECTIVE MODULES**

- Indicate the role of a team leader ensuring that a team meets an organization's standards
- Perform one-to-one training on the job
- Use communication skills to handle and resolve conflict in the workplace
- Collect and interpret data
- Demonstrate knowledge pertaining to uncontrolled explosions
- Determine radon and throne progeny concentrations using the Ogden method
- Determine the integrated beta/gamma radiation dose using a Thermo luminescent Dosimeter (LTD)
- Determine the integrated radon gas dose
- Measure radon progeny using the batch method

<b>165 Credits</b>	<b>Days</b>
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