



"making your skills a priority"

Course Title: Occupational Certificate: Boilermaker

SAQA ID: 93626

NQF Level: 4

Credits: 395

Course Description:

The Occupational Certificate: Boilermaker is designed to provide learners with the knowledge and practical skills needed to work as a Boilermaker. The course covers welding, metalworking, fitting, and fabrication techniques. Learners will also acquire essential knowledge of health and safety protocols, drawing interpretation, and the use of tools and equipment necessary for the profession.

Course Objectives:

By the end of this course, learners will be able to:

- Interpret technical drawings and specifications related to boilmaker work.
- Use a range of hand tools and machinery to fabricate and assemble metal structures.
- Apply welding and cutting techniques to metalwork.
- Adhere to safety and quality control standards in the workplace.

Benefits of Completing this Course:

- Achieve a nationally recognized qualification as a Boilermaker.
- Gain comprehensive technical skills for the fabrication and welding industry.
- Enhance job opportunities in industries like construction, shipbuilding, manufacturing, and energy.
- Contribute to workplace safety and quality by following professional standards.

Who Should Attend:

- Individuals interested in pursuing a career as a Boilermaker.
- Apprentices or employees working in the metalworking or welding sectors.
- Those seeking to enhance their skills in welding, fabrication, and metalwork assembly.

Assessment:

Assessment will be based on the learner's ability to:

- Demonstrate practical competence in using tools and machinery.
 - Complete welding and fabrication tasks to specification.
 - Show understanding of drawing interpretation, materials handling, and safety practices.
 - Participate in practical and written assessments that test skills and knowledge.
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TRAINING AND PROJECTS

"making your skills a priority"

Specific Outcomes and Assessment Criteria:

By successfully completing this Occupational Certificate, learners will demonstrate competence in the following:

1. Interpret Technical Drawings and Specifications:

- Read and understand technical drawings for fabrication and installation.
- Apply standard symbols and notation to interpret measurements and materials.
- **Assessment Criteria:** Observation of practical application and accuracy in interpreting drawings.

2. Fabricate, Assemble, and Install Metal Structures:

- Use hand tools and machinery to fabricate components according to specifications.
- Assemble and install metal structures, ensuring alignment and stability.
- **Assessment Criteria:** Performance of tasks related to welding, fitting, and assembly, meeting project requirements.

3. Perform Welding and Metalworking Tasks Using Different Techniques:

- Apply various welding methods (e.g., MIG, TIG, stick welding) to join metal pieces.
- Cut and shape metal using appropriate tools and techniques.
- **Assessment Criteria:** Demonstration of safe welding practices and quality control during tasks.

4. Follow Safety and Quality Control Protocols:

- Understand and apply safety regulations when working with hazardous tools and materials.
- Inspect work for quality and compliance with industry standards.
- **Assessment Criteria:** Observation of safety procedures and adherence to quality standards during practical tasks.

Completing the Occupational Certificate: Boilermaker will ensure learners are well-equipped to perform in a professional environment, contributing to the quality, safety, and efficiency of metal fabrication and welding projects.