



"making your skills a priority"

Course Title: Use Welding Definitions and Symbols

SAQA ID: 253736

NQF Level: 2

Credits: 5

Course Description:

This course introduces learners to the standardized welding definitions and symbols used across industries for interpreting welding requirements. Learners will develop an understanding of welding symbols, terminology, and conventions used in engineering drawings. This foundational knowledge enables accurate communication, interpretation, and application of welding specifications in fabrication and manufacturing environments.

Course Objectives:

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

- Understand and use standardized welding terms and definitions.
- Interpret and apply welding symbols as per industry standards.
- Read and understand welding requirements in engineering and fabrication drawings.
- Improve communication and accuracy in welding processes.

Benefits of Completing this Course:

- Develop the ability to accurately interpret and apply welding specifications.
- Improve efficiency and quality in welding projects by following precise guidelines.
- Enhance employability by understanding industry-standard welding language.
- Contribute to better communication between team members in fabrication and construction settings.

Who Should Attend:

- Welders, fabricators, and metalworkers seeking to improve technical accuracy.
- Apprentices and trainees in welding or engineering programs.
- Supervisors and quality control personnel in manufacturing and welding environments.
- Individuals involved in reading or creating technical drawings for fabrication.



TRAINING AND PROJECTS

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Assessment:

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

- Demonstrate knowledge of welding definitions and symbols.
- Accurately interpret and apply symbols in engineering drawings.
- Participate in discussions and exercises related to welding symbols and their applications.

Specific Outcomes and Assessment Criteria:

By successfully completing this SAQA Unit Standard, learners will demonstrate competency in the following:

1. Understand Welding Terminology:

- Explain key welding definitions, terms, and related technical jargon.
- Describe the purposes of using standardized symbols and definitions in welding.
- Assessment Criteria: Written assessment on welding terminology and its importance in communication.

2. Interpret Welding Symbols:

- Identify and understand common welding symbols used in engineering drawings.
- Demonstrate the correct interpretation of welding requirements such as joint type, weld type, and dimensions.
- Assessment Criteria: Practical exercises requiring interpretation of welding symbols in sample drawings.

3. Apply Welding Symbols in Fabrication:

- Use welding symbols accurately to follow instructions in welding projects.
- Communicate welding requirements to team members using standardized symbols.
- Assessment Criteria: Practical application exercises focused on applying symbols in a welding project.

4. Maintain Quality and Safety Standards:

- Explain how accurate use of welding symbols contributes to quality control and safety.
- Follow quality standards for interpreting and applying welding symbols on engineering drawings.
- Assessment Criteria: Group discussion on quality and safety standards related to welding symbol usage.

By completing this course, learners will gain essential skills for using welding definitions and symbols effectively, contributing to higher accuracy, quality, and communication in welding operations across various industries.