



AWS Standard for Certification of Welding Educators



American Welding Society



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AWS QC 5-91

AWS Standard for Certification of Welding Educators

Prepared by
AWS Qualification and Certification Committee

Under the Direction of
AWS Education and Certification Council

Approved by
AWS Board of Directors
April 1991

Abstract

This Standard describes a program directed by the American Welding Society for the certification of Welding Educators.



American Welding Society

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Foreword

(This Foreword is not a part of AWS QC 5-91, *AWS Standard for Certification of Welding Educators*, but is included for information purposes only.)

The Welding Educator is a person who recognizes welding training requirements, prepares instruction plans, conducts training classes and evaluates student performance. The Welding Educator may teach using prepared instructional materials or prepare original instructional materials. The Welding Educator shall conduct welding classes including both skills and technical. The Welding Educator must be thoroughly familiar with welding processes, welding procedures, welder qualifications, materials, the limitations of weld testing, must be able to read drawings, prepare and keep records, prepare and make reports. The activities performed by the Welding Educator shall be consistent with these requirements; and with technical and ethical principles. The Welding Educator should be able to work with the school administrator or a welder with ease and an appreciation of the role of each.

The AWS program for the certification of Welding Educators has been developed to define minimum standards for welding educators and to provide a means of recognition for those who demonstrate that they have the skills, knowledge, and experience in the field of welding education.

Comments and suggestions for improvement are welcome. They should be sent in writing to the Secretary, AWS Qualification and Certification Committee, American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

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AWS Standard for Certification of Welding Educators

1. Scope

1.1 This standard establishes the requirements for the AWS certification of Welding Educators, describes how personnel are qualified, and outlines the principles of conduct and practice by which certification may be maintained.

1.2 In the certification process, the AWS conducts examinations which verifies a person's skill and knowledge of welding fabrication and requires documentation of their teaching skills.

1.3 It shall be the responsibility of the employer to determine that a person is capable of performing the duties involved in their welding educator assignment.

1.4 This standard is intended to supplement the requirements of an employer, or of state regulations; it shall not be construed as a preemption of the employer's responsibility for the work or for the performance of the work.

2. Levels of Certification

A Certified Welding Educator (CWE) is a person certified by AWS as having met the qualification requirements of 5.1 and section 6. This shall be the only level of certification of Welding Educators.

3. Definitions

Terms used in this Standard are defined as follows:

Acceptance Criteria. Specified limits placed on one characteristic of an item or process defined in codes, standards or other contract requirement documents.

Applicant. A person who applies to the AWS for certification.

AWS. The American Welding Society

Certificate. A document issued to the candidate on successful completion of the requirements for certification.

Certification. The act of determining, verifying, and attesting in writing to the qualification of personnel in accordance with specified requirements.

Fabrication. To construct or manufacture to a specification.

Inspection. Examination or measurement to verify whether an item or activity conforms to specified requirements.

Inspector. A person who performs an inspection function to verify conformance to specified requirements.

Other Terms. All other terms used herein are defined by ANSI/AWS A3.0, *Standard Welding Terms and Definitions*.

Q & C Committee. The Qualification and Certification Committee of the American Welding Society.

Q & C Department. The Qualification and Certification Department of the American Welding Society.

Qualification (Personnel). Demonstrated skill, training, knowledge and experience required for personnel to properly perform duties of a specific job.

Qualified. To have demonstrated the ability to weld with a process to an industry standard.

***NOTE.** This may be done by welding some test plate, such as the AWS D1.1 tackler test, plate test, or pipe test with acceptance verified by testing by an independent testing laboratory to a published standard.

Terminology Guideline. As used in this Standard, the word *shall* denotes a requirement; the word *should* denotes a guideline; and the word *may* denotes a choice.

Training Institution. Organizations which train people for employment in the field of welding. This includes for fee organizations open to the public or in-house training organizations who train only their own employees.

Verification. The act of reviewing, inspecting, testing, checking, auditing or otherwise determining and documenting whether items, processes, services, or documents conform to specified requirements.

Weldment. An assembly whose component parts are joined by welding.

4. Function

The Welding Educator has the responsibility to direct and perform operations associated with welder training and classroom instruction. The activities begin before instruction and continue through the instruction process and do not end until both the students and instruction process have been evaluated. Each employer is responsible for defining the specific duties of a Welding Educator in the respective place of employment. The AWS Certified Welding Educator shall be able to demonstrate the capability of performing the tasks defined in this standard.

The tasks of a Welding Educator include, but are not limited to:

4.1 Welding Codes, Drawings and Specifications. The Welding Educator shall be capable of reading and