



Specification for AWS Certification of Resistance Welding Technicians



American Welding Society



Specification for AWS Certification of Resistance Welding Technicians

1st Edition

Prepared by the
American Welding Society (AWS) Subcommittee on Resistance Welding

Under the Direction of the
AWS Certification Committee

Approved by the
AWS Board of Directors

Abstract

This specification defines the certification program of the American Welding Society for use in the Certification of Resistance Welding Technicians (CRWTs). These certifications require documentation of experience, and satisfactory completion of a written examination. The examination tests the CRWT's knowledge of welding processes, welding procedures, destructive and nondestructive tests, welding terms, definitions, symbols, reports, safety, quality assurance and responsibilities, machine setup, and other related subjects. Successful completion of all requirements constitutes the basis for awarding a certification as a Resistance Welding Technician.



American Welding Society

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Foreword

This foreword is not part of AWS QC20:2011, *Specification for AWS Certification of Certified Resistance Welding Technicians*, but is included for informational purposes only.

This standard was developed by the Certification Committee in response to an industry demand for certification of resistance welding technicians.

The AWS Certification Committee was formed in 1975. The Committee is composed of representatives throughout industry and academia who have interests and experience in the certification of resistance welding technicians. This is one of several documents produced by the committee covering welding personnel and facilities.

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

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Specification for AWS Certification of Resistance Welding Technicians

1. Scope

1.1 This specification establishes the requirements for AWS certification of resistance welding technicians. It describes how personnel are certified, and the principles of conduct and practice by which certification may be maintained. Any oral or written claim of certification under the guidelines established herein shall be made only by those individual Certified Resistance Welding Technicians (CRWTs) who are, at the time of the claim, current and in compliance with all clauses of this specification.

1.2 In the certification process, AWS conducts an examination to determine a person's general knowledge of the resistance welding processes and related technical areas. No determination is made of an individual's capabilities in applying that knowledge within a specific work environment, nor under actual working conditions.

1.3 In the certification process, the employer is responsible for determining that a person has specific capabilities required for a given work assignment and other qualifications as stated herein.

1.4 It shall be the responsibility of the employers to determine that the CRWT is capable of performing the duties involved in their particular welding environment, and to provide or make available such training or indoctrination as may be required.

1.5 This specification is intended to supplement the requirements of an employer, code, or other documents and shall not be construed as a preemption of the employer's responsibility for the work or for the performance of the work.

1.6 Safety Precautions. This document is not intended to address safety and health matters regarding the CRWT. Safety and health requirements are provided in ANSI Z49.1, *Safety in Welding, Cutting, and Allied*

*Processes*¹ and other safety and health standards, and federal, state, and local government regulations. This document only covers the rules of personnel certification.

2. Normative References

The standards listed below contain provisions, which, through reference in this text, constitute mandatory provisions of this AWS standard. For undated references, the latest edition of the referenced standard shall apply. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply.

(1) AWS A3.0M/A3.0, *Standard Welding Terms and Definitions*²

(2) AWS C1.5, *Specification for the Qualification of Resistance Welding Technicians*²

3. Levels of Certification

There is one level of AWS certification, as detailed in AWS C1.5, and is titled Certified Resistance Welding Technician (CRWT).

4. Definitions and Abbreviations

The welding terms used in this specification are not defined in AWS A3.0. Other terms used in this specification are defined as follows:

approved. To accept as satisfactory.

¹ ANSI Z49.1 is published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

² AWS standards are published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.