

**Guide  
for the Training of  
Welding Personnel:  
Level I—Entry  
Welder**



**American Welding Society**

# **Guide for the Training of Welding Personnel: Level I— Entry Welder**

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Prepared by the  
American Welding Society (AWS) Committee on SENSE  
AWS Committee on Education

Approved by the  
AWS Board of Directors

## **Abstract**

This guide contains information to assist education and training organizations in the development and administration of a modular, competency-based training that leads to the qualification and certification of a trainee in accordance with the requirements of AWS QC10, Specification for Qualification and Certification of Level I—Entry Welder.



**American Welding Society**

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# Personnel

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# Foreword

This foreword is not a part of AWS EG2.0-2008 *Guide for the Training of Welding Personnel: Level I—Entry Welder*, but is included for informational purposes only.

The American Welding Society (AWS), recognizing the need for competent welders, through a grant by the U.S. Department of Education, formed the Education Grant Committee in 1992 and assigned them the task of preparing the initial guide.

Welding has become a very sophisticated and technical science, requiring not only mental application but also hands-on abilities. The future need for competent welders should prompt the establishment of a greater number of educational programs. Thus, it becomes imperative that training adequately prepares individuals for industrial assignments at various levels of skill development.

To this end the Level I—Entry Welder needs to enter the workforce possessing a prerequisite amount of knowledge, attitude, skills and habits required to perform routine, predictable, repetitive, and procedural tasks involving motor skills, and limited theoretical knowledge while working under close supervision.

As the name implies, it is the intent of this Guide to establish, expand, or enhance a private or public training program for Level I—Entry Welder. The guidelines contained in this document are based on AWS QC10: *Specification for the Qualification and Certification of Level I—Entry Welder*. AWS QC10 and EG2.0 were developed according to the DACUM method, and are based on the results of a national survey to identify requisite entry welder skills and knowledge. Survey participants included individuals from a wide range of business, industrial and educational areas.

Therefore, this document represents the AWS Education Grant Committee's consensus on the minimum requirements for a Level I—Entry Welder as specified by industry, and establishes the guidelines necessary to standardize the training and qualification of Level I—Entry Welder on a national basis.

Comments and suggestions for the improvement of this standard are welcome. They should be sent to: The American Welding Society, Attention: Managing Director of Education, 550 N.W. LeJeune Road, Miami, FL 33126.

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# 1. General Provisions

**1.1 Scope.** EG2.0 establishes a skill standard by defining the recommended minimum welder training requirements for a Level I—Entry Welder in accordance with AWS QC10: *Specification for Qualification and Certification of Level I—Entry Welder*.

This guide is intended to specify a credible path for training organizations to implement new welding programs or to enhance existing programs to administer Level I—Entry Welder training.

Use of this Guide is voluntary. Training organizations desiring to register a trainee as an AWS SENSE certified Level I—Entry Welder, or to record completion of modules or units, shall consider these guidelines as the minimum specified under AWS QC10.

## 1.2 Objectives

**1.2.1** Provide training organizations with an industrial awareness of the occupational description, conditions, task listing, and profile that encompasses the job classification of Level I—Entry Welder.

**1.2.2** Establish a national consensus guidelines, based on an industry-wide survey of skills needed in industry, detailing the minimum acceptable skill requirements for the training of a Level I—Entry Welder.

**1.2.3** Provide training organizations with a list of *Key Indicators Objectives*, and *Modular Instructional Activities* necessary to accomplish Level I—Entry Welder training.

**1.2.4** Provide training organizations with a national consensus guideline with which to compare their own curriculum, evaluate third party curricula, or develop a new curriculum that is aligned with this national consensus modular SENSE guideline.

**1.2.5** Provide training organizations with AWS documents and standards to be used as a basis for evaluating or developing training materials.

**1.2.6** Provide training organizations participating in SENSE with information related to the administration of Level I—Entry Welder testing necessary to meet the requirements of AWS QC10.

## 1.3 Implementation

**1.3.1 Curriculum Comparison.** Each training organization's course of study should reflect the objectives and key indicators of this guide as outline in 3.2 *Modular Competency Based Program Outline* and detailed in 3.3 *Learning Modules*.

**1.3.2 Teaching Sequence.** The program sequence as outlined in 3.2 *Recommended Modular Competency Based Program Outline* and detailed in 3.3 *Recommended Modular Guidelines for Level I—Entry Welder Training* is a suggested or recommended sequence. It is not mandatory to teach a course of study following the sequence of AWS QC10, Table 1 *Level I—Entry Welder Program Structure*. The teaching sequence for each training organization's course of study should be that which the instructor, the organization or the state educational authority specifies or has found to be most suited to the capabilities of the trainees and meets the needs of the industry.