AWS QC11-96

Specification for Qualification and Certification for Level II—Advanced Welders



Key words — advanced level welder, participating organization, performance tests, acceptance criteria, National Registry

AWS QC11-96

Specification for Qualification and Certification for Level II - Advanced Welders

Funded by the U.S. Department of Education Grant V244B30006-95

Prepared by the AWS Education and Certification Departments

Under the Direction of the AWS Education Grant Committee

Approved by the AWS Board of Directors

Abstract

This standard defines the requirements and program for the American Welding Society to certify advanced level welders. The certification of Level II - Advanced Welders requires performance qualification and practical knowledge tests. These tests require more detailed skills of reading, computational, and manual skills to complete.

Table of Contents

Page No. Personneliii Forewordiv List of Figuresvi 1. Scope 9. National Registry of Level II - Advanced Welders 5 Annex A - Workmanship Qualification Test Report 8 Annex B - Face- and Root-Bend Test Report9

List of Tables

Table		Page No
1	Visual Inspection Criteria for Level II - Advanced Welders	6
2	Acceptance Criteria for Face- and Root-Bends	7

List of Figures

Figure	Page No.
1	SMAW Workmanship Qualification Test
2	GMAW (Spray Transfer) Workmanship Qualification Test
3	GMAW (Spray and Short Circuit Transfer) Workmanship Qualification Test 24
4	FCAW-S and FCAW-G Workmanship Qualification Test
5	GTAW Workmanship Qualification Test
6	SMAW Performance Qualification Test
7	SMAW Test Pipe Specimen Locations
8	Face- and Root-Bend Specimens
9	Typical Guided-Bend Test Fixture
10	Alternative Wrap Around Bend Test Fixture

Specification for Qualification and Certification for Level II - Advanced Welders

1. Scope

- 1.1 This standard establishes the minimum requirements for an organization to participate with the American Welding Society (AWS) in the qualification and certification of advanced welders.
- 1.2 This standard specifies practical knowledge and performance tests that require a more detailed level of reading, computational, and manual skills to successfully complete.
- 1.3 All individuals that meet the specified performance at a facility meeting 3.

 Requirements for Participating Organizations will be listed in The National Registry of Level II Advanced Welders at the American Welding Society.
- 1.4 Organizations not meeting 3. Requirements for Participating Organizations may use this standard, but individuals they certify will not be listed in the National Registry of Level II Advanced Welders.
- 1.5 Although a written test including questions on safety is required by this standard, this standard is not intended to address safety and health. Safety and health requirements are provided in ANSI Z49.1, Safety in Welding and Cutting, other safety and health standards, and federal, state, and local government regulations. The responsibility for safety of the Level II Advanced Welder is primarily with the welder, the Participating Organization during training and testing, and afterwards, with the employer.
- **1.6** The requirements of this standard shall not supersede the authority of the training facility as established by the local evaluation guidelines.

2. Definitions

The terms used in this standard are defined in ANSI/AWS A3.0, Standard Welding Terms and Definitions. Other terms are defined as follows:

- 1) Participating Organization Any organization meeting 3. Requirements for Participating Organizations.
- 2) Level II Advanced Welder An individual employed in this position is considered to possess a prerequisite amount of knowledge, attitude, skills, and habits required to perform proceduralized tasks under general supervision, and complex tasks involving the use of theoretical knowledge and motor skills under close supervision.