

American Welding Society (AWS) SENSE

Aligned Program of Study: Welding

Aligned Courses:

- Welding I (6078)
- Welding II (6033)

Description

Schools Excelling through National Skills Education (SENSE) certifications are grounded using a set of specifications and guidelines meant to assist schools in training welders. Based on a survey of the welding industry, the SENSE guidelines are divided into two levels of knowledge and skills required in the welding workplace. Students trained in organizations aligned to the SENSE guidelines may implement the following:

- **Entry Level Welder (Level I)**
An employee in this position is considered to possess 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.
- **Advanced Welder (Level II)**
An employee in this position is considered to possess a prerequisite amount of knowledge, attitude, skills, and habits required to perform tasks under general supervision, and complex tasks involving the use of theoretical knowledge and motor skills under close supervision.

SENSE is not a curriculum, and does not provide instructional materials, daily plans, or student handouts; however state approved welding course standards meet or exceed the requirements found in the SENSE specifications and guidelines. SENSE does include the required knowledge-based assessments, workmanship sample procedures, and Performance Qualification Tests required to earn a SENSE credential. Students who complete a SENSE-compliant training program are eligible to receive an AWS SENSE Certification and wallet card.

Materials and Resources

There are a variety of materials and resources found at AWS website:

<http://www.aws.org/education/Sense>

Test Owner and Registration

American Welding Society (AWS): AWS Education Services

8669 NW 36 Street, Ste. 130

Miami, FL 33166

Phone: (305) 443-9353 ext. 455

Email: education@aws.org

Registration and Fees

The process of registering as a SENSE school is simple. In order to register a [SENSE Training Organization](#) (TO), the school must:

1. Complete the [SENSE Registration Form](#)
2. Sign the [Letter of Commitment](#)
3. Send a check or purchase order covering the registration fee to the AWS Education Department.

The SENSE Program requires the payment of a **one-time fee** to be accompanied with the registration packet. The SENSE registration fee varies depending on the level of implementation as listed below:

- **Level I - \$500**
- **Levels 1 & 2 - \$600**

This one-time fee covers:

- Registration as a SENSE Training Organization.
- SENSE Program standards, guidelines, and resource materials.
- A library of eight AWS reference books/ standards for a classroom library.
- Use of the AWS SENSE Logo.
- Complimentary use of the AWS SENSE Online System.
- As part of the SENSE registration process, AWS includes a complementary one-year membership as an AWS Educational Institution Member (EIM).

Once a student passes the one or both of the certifications, a **\$15.00 graduation fee** is required. This fee will allow them to receive a wall certificate, wallet card and be entered into the AWS Welder Database.

Exam Codes	Entry Level Welder (Level I) Advanced Welder (Level II)
Website	http://www.aws.org/education/Sense
Assessment	<p>AWS SENSE Level 1 Entry Welder Certification</p> <p>Students must take successfully pass the following five mandatory written (on-line) end of module exams:</p> <ul style="list-style-type: none"> • Module 1 – Occupational Orientation • Module 2 – Safety and Health of Welders • Module 3 – Drawing and Welding Symbol Interpretation • Module 4 – Shielded Metal Arc Welding (SMAW). • Module 5 – Gas Metal Arc Welding (GMAW, GMAW-S) • Module 6 – Flux Cored Arc Welding (FCAW-G/GM, FCAW-S) • Module 7 – Gas Tungsten Arc Welding (GTAW) • Module 8 – Thermal Cutting Processes

	<ul style="list-style-type: none"> ○ Unit 1: Manual Oxyfuel Gas Cutting (OFC) ○ Unit 2: Mechanized Oxyfuel Gas Cutting (OFC) ○ Unit 3: Manual Plasma Arc Cutting—PAC ○ Unit 4: Manual Air Carbon Arc Cutting (CAC-A) ● Module 9 – Welding Inspection and Testing <p>In addition to successfully passing all five mandatory end of module exams referenced above, students must also successfully pass one of the following written/performance end of module exams. These exams have a written (on-line) component and a Visual Inspection section:</p>
Duration of Level 1 Exam	60 minutes per module exam
Number of Questions- Level 1 Exam	27-40 questions on each module exam
Exam Cut Scores- Level 1 Exam	<p>Module 1 - Occupational Orientation: Instructor/Advisor Observation</p> <p>Module 2 - Safety and Health of Welders: Written Test Score 100% minimum</p> <p>Module 3 - Drawing and Welding Symbol Interpretation: Written Test Score 75% minimum</p> <p>Module 4 - Shielded Medical Arc Welding (SMAW): Written Test Score 75% minimum; Visual Inspection Passed; Destructive Test Passed</p> <p>Module 5 - Gas Metal Arc Welding (GMAW, GMAW-S): Written Test Score 75% minimum; Visual Inspection Passed</p> <p>Module 6 - Flux Cored Arc Welding (FCAW-G/GM, FCAW-S): Written Test Score 75% minimum; Visual Inspection Passed</p> <p>Module 7 - Gas Tungsten Arc Welding (GTAW): Written Test Score 75% minimum; Visual Inspection Passed</p> <p>Module 8 - Thermal Cutting Processes: Written Test Score 75% minimum; Visual Inspection Passed</p> <p>Module 9 - Welding Inspection and Testing: Written Test Score 75% minimum</p>