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# SENSE Implementation Process

*Developed by the  
American Welding Society  
as part of the  
SENSE Workshop Series*



# Registration

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School registers for SENSE by completing and submitting registration forms.

Forms are available for download from the AWS website.

# Registration → Implementation

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AWS processes registration and sends school implementation materials.

- Qualification and Guide documents
- Written exams
- Administrative forms
- SENSE Library Order form



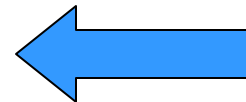
# American Welding Society

## SENSE

### Instructor's Level I Customized Library

Select eight (8) books from the Library and return to: AWS Sense Coordinator, 350 N.W. LeJeune Road, Miami, FL 33126. (The books you'll receive due to your year's Education Institutional Membership – another benefit of joining SENSE – will be processed by the AWS Membership Department). The balance of the Library can be purchased from WEX 888-WELDING (888 935-3464). (Outside North America, 305 824-1177). FAX 305 826-6195 or order online at [www.aws.org/standards](http://www.aws.org/standards).

	/ Select one (1) from List A below	Catalog Price	Select
AWS A2.4	Standard Symbols for Welding, Brazing and NonDestructive Examination	\$148.00	
AWS A3.0	Standard Welding Terms and Definitions	\$132.00	
AWS WHB 1-9	Welding Handbook Volume 1 (Welding Science and Technology)	\$192.00	
AWS WHB 2-8	Welding Handbook Volume 2 (Welding Processes)	\$192.00	
AWS WHB 3.3	Welding Handbook Volume 3 (Materials and Applications Part 1)	\$160.00	
AWS WHB 4.8	Welding Handbook Volume 4 (Materials and Applications Part 2)	\$160.00	
AWS FWH-All	Effects of Welding on Health Vol. 1-XII Plus Index	\$176.00	
AWS B2.1	Specification for Welding Procedure and Performance Qualification	\$158.00	
/ Select two (2) from List B below			
AWS B1.10	Guide for the Nondestructive Examination of Welds	\$104.00	
AWS B1.11	Guide for the Visual Examination of Welds	\$104.00	
AWS B4.0	Standard Methods for Mechanical Testing of Welds	\$104.00	
AWS C5.2	Recommended Practices for Plasma Arc Cutting and Gouging	\$64.00	
AWS C5.3	Recommended Practices for Air Carbon Arc Cutting and Gouging	\$56.00	
AWS C5.3/C5.3M	Recommended Practices for Gas Tungsten Arc Welding	\$96.00	
AWS C5.6	Recommended Practices for Gas Metal Arc Welding	\$72.00	
AWS C5.10/C5.10M	Recommended Practices for Shielding Gases for Welding and Cutting	\$68.00	
/ Select five (5) from List C below			
AWS AWN	Arc Welding and Cutting Noise	\$60.00	
AWS AWS	Arc Welding and Cutting Safety	\$28.00	
AWS BBS	Braze Safety	\$28.00	
AWS SGRH	The Independent Shop's Guide to Welding Safety and Health	\$60.00	
AWS F2.2	Lens Shade Selector	\$28.00	
AWS F2.3M	Specification for Use and Performance of Transparent Welding Curtains and Screens	\$52.00	
AWS F3.2M/F3.2	Ventilation Guide for Weld Fume	\$60.00	
AWS Fumes & Gases	Fumes and Gases in the Welding Environment	\$128.00	
AWS FSW	Fire Safety in Welding and Cutting	\$28.00	
AWS OWS	Oxyfuel Gas Welding, Cutting, and Heating Safety	\$28.00	
AWS SP	Safe Practices	\$60.00	
AWS C4.2/C4.2M	Recommended Practices for Safe Oxyfuel Gas Cutting Torch Operation	\$60.00	
AWS GWF	Guide for Setting up a Welder Training Facility	\$52.00	
Free Publications: downloadable from – <a href="http://www.aws.org/technical/facts">www.aws.org/technical/facts</a>			
ANSI Z49.1	Safety in Welding, Cutting, and Allied Processes	Free Download	
Fact Sheets	Safety and Health Fact Sheets	Free Download	



Choose eight texts from the list as part of the SENSE Implementation package.

Please complete to ensure a prompt delivery and retain a copy of this form with your Library selections for your records.

Ship books to ATTN OF: \_\_\_\_\_ Daytime Telephone \_\_\_\_\_

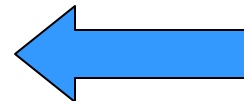
Street Shipping Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Participating Organization (PO) Name \_\_\_\_\_ PO Number \_\_\_\_\_

E-mail \_\_\_\_\_

The SENSE Instructor's Level Library will be kept in  our main library  our welding lab area  my office

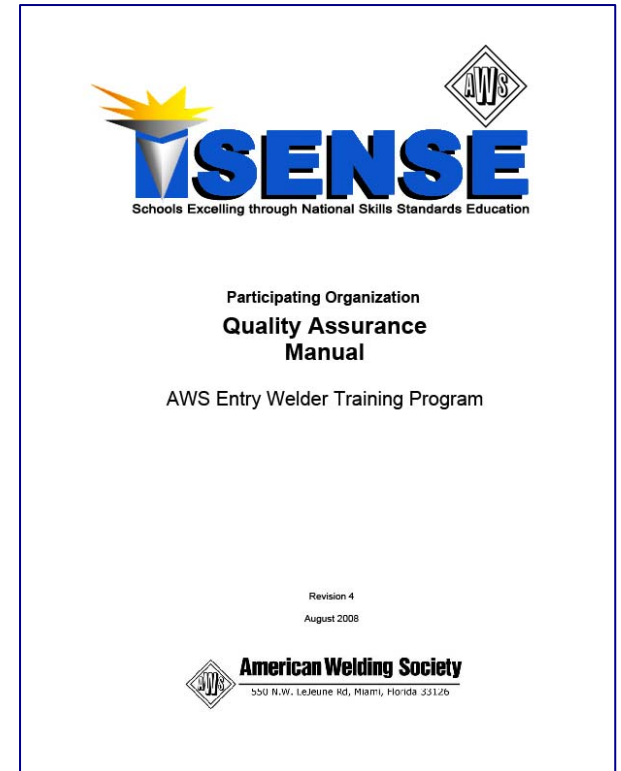


Provide mailing information and return to AWS.

# Implementation

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School develops a quality assurance manual based on sample provided by AWS.





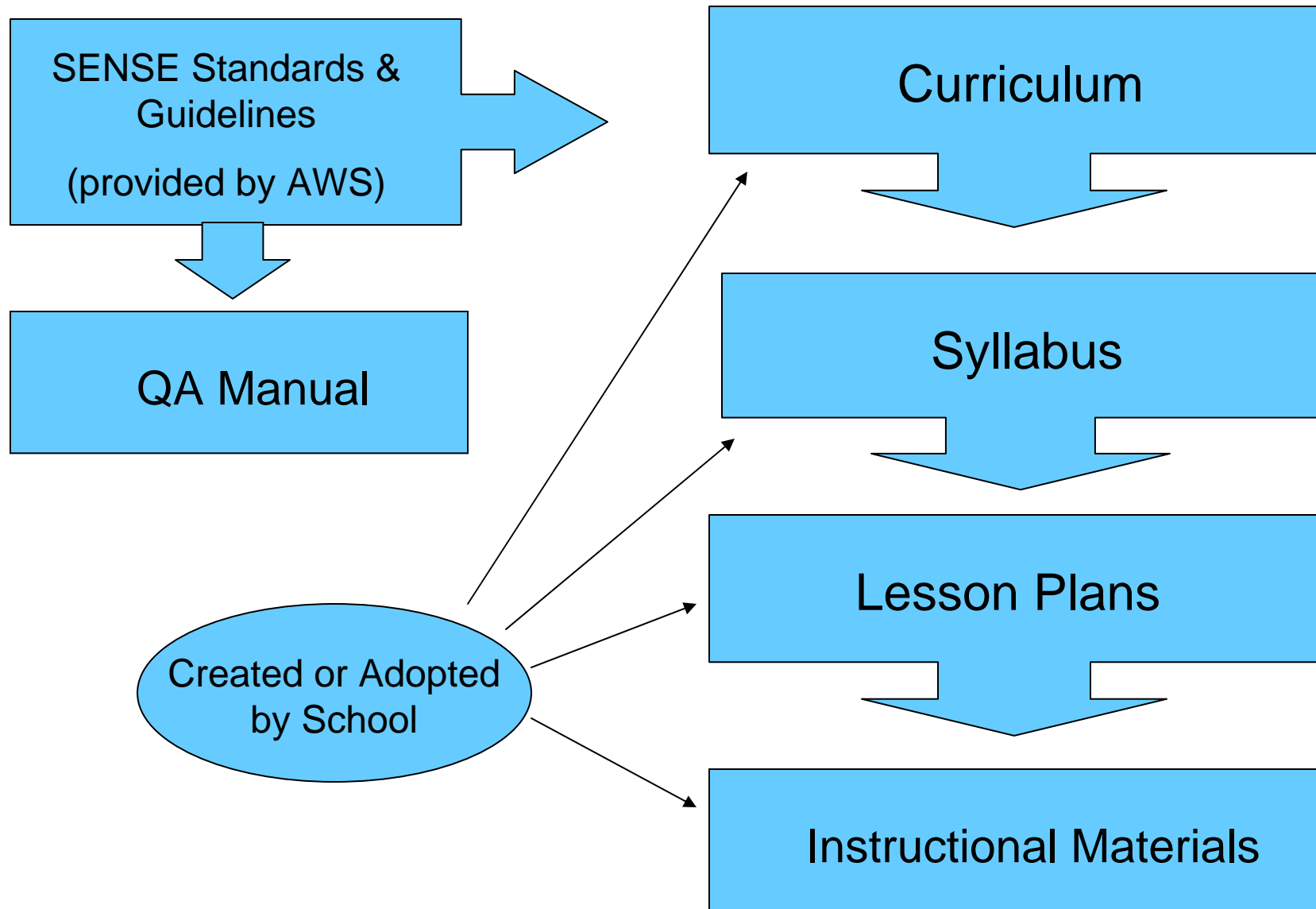
# Implementation

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School develops or adopts a SENSE aligned welding curriculum.

- Syllabus
- Lesson plans
- Instructional materials

# Implementation Process Flowchart





# Implementation Choices

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Two ways to implement SENSE Level I:

- Comprehensive

or

- Modular



# Comprehensive Implementation

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- All welding process are covered:
  - SMAW, GMAW, FCAW, and GTAW
  
- All basic modules are covered:
  - Occupational Orientation
  - Safety & Health of Welders
  - Drawing & Welding Symbol Interpretation
  - Thermal Cutting Processes
  - Welding Inspection & Testing



# Modular Implementation

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- **Choose** which welding process to cover:
  - SMAW, GMAW, FCAW, or GTAW
  
- Must also include:
  - Occupational Orientation
  - Safety & Health of Welders
  - Drawing & Welding Symbol Interpretation
  - Thermal Cutting Processes
  - Welding Inspection & Testing



# Contact Information

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For further information on SENSE,  
please contact:

AWS Education Services

800-443-9353, ext. 455

[education@aws.org](mailto:education@aws.org)

[www.aws.org](http://www.aws.org)