



HOBART INSTITUTE
OF WELDING TECHNOLOGY

WELDING TRAINING MATERIALS CATALOG



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COMPLETE TRAINING COURSE OVERVIEW

Each Complete Course Includes:

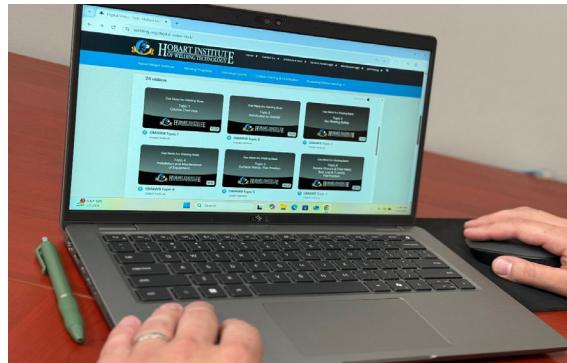
an instructor's guide; Streaming video, one student workbook, one technical guide, tests & answer keys.

• Instructor's Guide

With comprehensive instructions for implementing each topic.

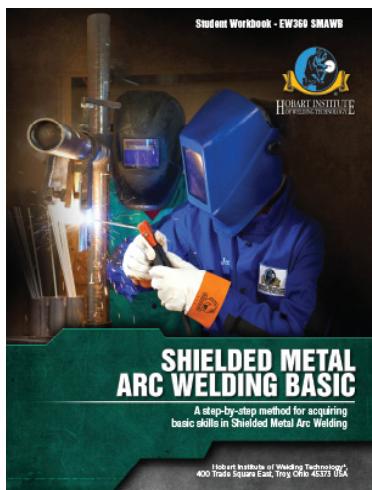
Topic/Objective	Training Time	Materials/Settings	Testing Method	Suggestions/Notes/Cautions for the Instructor
<p>3. Arc Welding Safety</p> <p>Objective: To become familiar with the important safety rules associated with all phases of welding.</p> <p>Topic number, name and objective from workbook.</p>	1 Hr.	<ul style="list-style-type: none"> DVD 1, Topic 3 (11 min. 13 sec.) Student Workbook, Topic 3, Page 13. Welding jacket or welding leathers, safety glasses with side shields, welding helmet with proper lens shade, welding gloves, leather safety shoes, denim pants free of cuffs, tears, and holes, proper hearing protection. Complete list of materials required to implement each topic. 	<p>Written test based on ANSI Z49.1 (for AWS® EG.2.0 and QC10 compliance).</p> <p>AND/OR</p> <p>Oral Quiz</p> <p>Suggested testing methodology for each topic.</p>	<p>Introduce this topic by paraphrasing the following:</p> <p>Every year, hundreds of peoples' lives are changed forever because they, or someone they work with fails to follow proper safety procedures.</p> <p>Think about it. One day the pressure is on to get a job done. You've done the job so many times before, and it seems so routine that you decide to take a few short cuts. The next thing you know you're lying in a hospital bed with third degree burns, or perhaps you've lost the use of your legs and will never walk again. So protect yourself and those around you by following safe work procedures.</p> <p>This next topic deals with the things you need to do to prepare for the next topic.</p> <p>A complete script of recommended things to say (bold) and questions to ask (indented) along with suggestions, notes & cautions for implementing each topic.</p>

• Streaming Video



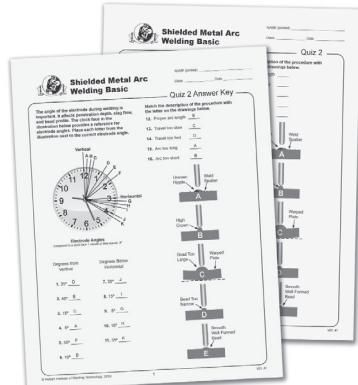
• One Student Workbook

Featuring easy to follow practice sessions based on video demonstrations and summaries of essential theory.



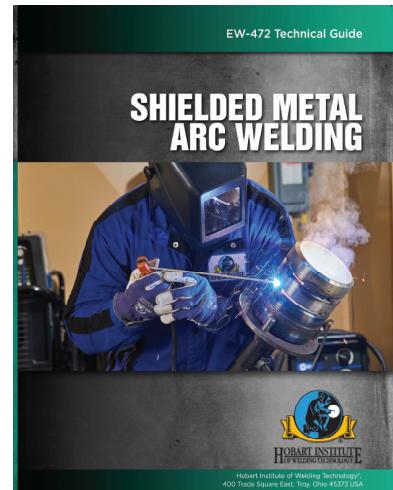
• Answer Keys for Written Test

Answer keys for each written test make it easy for instructors to measure student mastery of key concepts. (50 copies of each written test are shipped with each complete course.)



• One Technical Guide

An individual resource for instructors and students, each technical guide contains process specific information on equipment, process variables, weldability, pre- and post-weld procedures, shielding gases, electrodes, safety and more.



COMPLETE TRAINING COURSES

STREAMING VIDEO BUNDLES:

The Complete Streaming Video Bundle Course provides a comprehensive instructional solution designed for both instructors and students. The course includes streaming video access to support visual learning, along with a detailed Instructor Guide to assist with lesson planning and course delivery. Each course also includes one Student Workbook and one Technical Guide to reinforce concepts and provide reference material. Assessments are supported with a test and corresponding answer keys to help instructors evaluate student understanding and track progress.

Core Training Video Bundle:

Complete Course: Streaming Video Access
7 Instructor Guide; 17 written test (PDF)

ITEM NO.
CBCORE

Shielded Metal Arc Welding Digital Videos, Instructor Guide, and 5 Written Test (PDF)

Gas Metal Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Gas Tungsten Arc Welding Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Flux Cored Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Oxyacetylene Welding, Cutting & Brazing Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Blueprint Reading for Welders & Fitters Digital Videos and Instructor Guide

Symbols for Welding Digital Videos and Instructor Guide

Product
Complete Core Training Bundle course

Item No.
CBCORE

List Price
\$1,495.00

Shielded Metal Arc Welding Training Video Bundle:

Complete Course: Streaming Video Access
4 Instructor Guide; 9 written test (PDF)

ITEM NO.
CB01

Shielded Metal Arc Welding Digital Videos, Instructor Guide, and 5 Written Test (PDF)

Oxyacetylene Welding, Cutting & Brazing Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Blueprint Reading for Welders & Fitters Digital Videos and Instructor Guide

Symbols for Welding Digital Videos and Instructor Guide

Product
Complete SMAW Training Bundle course

Item No.
CB01

List Price
\$1,195.00

COMPLETE TRAINING COURSES

Gas Metal Arc Welding/Flux Cored Arc Welding Training Video Bundle:

Complete Course: Streaming Video Access
5 Instructor Guide; 8 written test (PDF)

ITEM NO.
CB10/12

Gas Metal Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)
Flux Cored Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)
Oxyacetylene Welding, Cutting & Brazing Digital Videos, Instructor Guide, and 4 Written Test (PDF)
Blueprint Reading for Welders & Fitters Digital Videos and Instructor Guide
Symbols for Welding Digital Videos and Instructor Guide

Product	Item No.	List Price
Complete GMAW/FCAW Training Bundle course	CB10/12	\$1,195.00

Gas Tungsten Arc Welding Training Video Bundle:

Complete Course: Streaming Video Access
4 Instructor Guide; 8 written test (PDF)

ITEM NO.
CB20

Gas Tungsten Arc Welding Digital Videos, Instructor Guide, and 4 Written Test (PDF)
Oxyacetylene Welding, Cutting & Brazing Digital Videos, Instructor Guide, and 4 Written Test (PDF)
Blueprint Reading for Welders & Fitters Digital Videos and Instructor Guide
Symbols for Welding Digital Videos and Instructor Guide

Product	Item No.	List Price
Complete GTAW Training Bundle course	CB20	\$1,195.00

COMPLETE TRAINING COURSES

INDIVIDUAL STREAMING VIDEO COURSES:

The Complete Streaming Video Course provides a comprehensive instructional solution designed for both instructors and students. The course includes streaming video access to support visual learning, along with a detailed Instructor Guide to assist with lesson planning and course delivery. Each course also includes one Student Workbook and one Technical Guide to reinforce concepts and provide reference material. Assessments are supported with a test and corresponding answer keys to help instructors evaluate student understanding and track progress.

Shielded Metal Arc Welding Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 5 written test (PDF)

ITEM NO.
SV01

Shielded Metal Arc Welding Digital Videos, Instructor Guide, and 5 Written Test (PDF)

Product	Item No.	List Price
Complete SMAW Training course	SV01	\$395.00

Shielded Metal Arc Welding-Structural Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 4 written test (PDF)

ITEM NO.
SV02

Shielded Metal Arc Welding - Structural Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Product	Item No.	List Price
Complete SMAWA-1 Training course	SV02	\$395.00

Shielded Metal Arc Welding-Pre-Pipe Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 4 written test (PDF)

ITEM NO.
SV05

Shielded Metal Arc Welding Pre-Pipe Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Product	Item No.	List Price
Complete SMAWA-2 Training course	SV05	\$395.00

COMPLETE TRAINING COURSES

Shielded Metal Arc Welding 2-Inch Pipe Uphill Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV03

Shielded Metal Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product	Item No.	List Price
Complete SMAW 2" Training course	SV03	\$395.00

Shielded Metal Arc Welding 6-Inch Pipe Uphill Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 5 written test (PDF)

ITEM NO.
SV06

Shielded Metal Arc Welding Digital Videos, Instructor Guide, and 5 Written Test (PDF)

Product	Item No.	List Price
Complete SMAWA 6" Training course	SV06	\$395.00

Shielded Metal Arc Welding-Downhill Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV04

Shielded Metal Arc Welding Pipe - Downhill Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product	Item No.	List Price
Complete SMAWPD Training course	SV04	\$395.00

**Visit our website at
www.welding.org**

COMPLETE TRAINING COURSES

Gas Metal Arc Welding Basic Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV10

Gas Metal Arc Welding Basic Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product
Complete GMAWB Training course

Item No.
SV10

List Price
\$395.00

Gas Metal Arc Welding Advanced Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV11

Gas Metal Arc Welding Advanced Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product
Complete GMAWA Training course

Item No.
SV11

List Price
\$395.00

Gas Metal Arc Welding Pipe Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV15

Gas Metal Arc Welding Pipe Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product
Complete GMAWP Training course

Item No.
SV15

List Price
\$395.00

Flux-Cored Arc Welding Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV12

Flux Cored Arc Welding Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product
Complete FCAW Training course

Item No.
SV12

List Price
\$395.00

COMPLETE TRAINING COURSES

Gas Tungsten Arc Welding Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 4 written test (PDF)

ITEM NO.
SV20

Gas Tungsten Arc Welding Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Product	Item No.	List Price
Complete GMAWB Training course	SV20	\$395.00

Gas Tungsten Arc Welding 2-Inch Pipe Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 1 written test (PDF)

ITEM NO.
SV22

Gas Tungsten Arc Welding 2-Inch Digital Videos, Instructor Guide, and 1 Written Test (PDF)

Product	Item No.	List Price
Complete GMAWA Training course	SV22	\$395.00

Gas Tungsten Arc Welding-Shielded Metal Arc Welding 6-Inch Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV26

Gas Tungsten Arc Welding-Shielded Metal Arc Welding 6-Inch Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Product	Item No.	List Price
Complete GMAWP Training course	SV26	\$395.00

Oxyacetylene Welding, Cutting & Brazing Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 4 written test (PDF)

ITEM NO.
SV30

Oxyacetylene Welding, Cutting & Brazing Digital Videos, Instructor Guide, and 4 Written Test (PDF)

Product	Item No.	List Price
Complete OAW Training course	SV30	\$395.00

COMPLETE TRAINING COURSES

Welding Procedures & Qualification Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 1 written test (PDF)

ITEM NO.
SV86.3

Welding Procedures & Qualification Digital Videos, Instructor Guide, and 1 Written Test (PDF)

Product	Item No.	List Price
Complete Training course	SV86.3	\$295.00

Welding Discontinuities & Defects Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 1 written test (PDF)

ITEM NO.
SV86.4

Welding Discontinuities & Defects Digital Videos, Instructor Guide, and 1 Written Test (PDF)

Product	Item No.	List Price
Complete Training course	SV86.4	\$295.00

Destructive Testing Methods Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 1 written test (PDF)

ITEM NO.
SV86.5

Destructive Testing Methods Digital Videos, Instructor Guide, and 1 Written Test (PDF)

Product	Item No.	List Price
Complete Training course	SV86.5	\$295.00

Nondestructive Testing Methods Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 1 written test (PDF)

ITEM NO.
SV86.6

Nondestructive Testing Methods Digital Videos, Instructor Guide, and 1 Written Test (PDF)

Product	Item No.	List Price
Complete Training course	SV86.6	\$295.00

Common Arc Welding Processes Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide; 2 written test (PDF)

ITEM NO.
SV85

Common Arc Welding Processes Digital Videos, Instructor Guide, and 2 Written Test (PDF)

Product	Item No.	List Price
Complete Training course	SV85	\$295.00

COMPLETE TRAINING COURSES

Basic Metallurgy Training Video Course:

Complete Course: Streaming Video Access

ITEM NO.
SV40

Basic Metallurgy Digital Videos

Product

Complete Basic Metallurgy Training course

Item No.
SV40

List Price
\$295.00

Symbols for Welding Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide

ITEM NO.
SV80

Symbols for Welding Digital Videos and Instructor Guide

Product

Complete Symbols Training course

Item No.
SV80

List Price
\$295.00

Blueprint Reading for Welders & Fitters Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide

ITEM NO.
SV81

Blueprint Reading for Welders & Fitters Digital Videos and Instructor Guide

Product

Complete Blueprint Training course

Item No.
SV81

List Price
\$295.00

Advanced Blueprint Reading Training Video Course:

Complete Course: Streaming Video Access
1 Instructor Guide

ITEM NO.
SV83

Advamced Blueprint Reading Digital Videos and Instructor Guide

Product

Complete Advanced Training course

Item No.
SV83

List Price
\$295.00

COMPLETE TRAINING COURSES

DVD PROGRAMS:

The Complete DVD Program Bundle Course provides a comprehensive instructional solution designed for both instructors and students. The course includes a DVD-based video program to support visual learning, along with a detailed Instructor Guide to assist with lesson planning and course delivery. Each course also includes one Student Workbook and one Technical Guide to reinforce key concepts and provide reference material. Assessments are supported with a test and corresponding answer keys to help instructors evaluate student understanding and track progress.

Shielded Metal Arc Welding Training Video Course:

Complete Course: 4 DVDs
1 Instructor Guide; 5 written test, 50 copies each

ITEM NO.
DV01

Shielded Metal Arc Welding DVDs, Instructor Guide, and 5 Written Test

Product Complete SMAW Training course	Item No. DV01	List Price \$1,295.00
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Shielded Metal Arc Welding-Structural Training Video Course:

Complete Course: 3 DVDs
1 Instructor Guide; 4 written test, 50 copies each

ITEM NO.
DV02

Shielded Metal Arc Welding DVDs Instructor Guide, and 4 Written Test

Product Complete SMAWA-1 Training course	Item No. DV02	List Price \$1,295.00
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Shielded Metal Arc Welding-Pre-Pipe Training Video Course:

Complete Course: 3 DVDs
1 Instructor Guide; 4 written test, 50 copies each

ITEM NO.
DV05

Shielded Metal Arc Welding DVDs, Instructor Guide, and 4 Written Test

Product Complete SMAWA-2 Training course	Item No. DV05	List Price \$1,295.00
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COMPLETE TRAINING COURSES

Shielded Metal Arc Welding 2-Inch Pipe Uphill Training Video Course:

Complete Course: 2 DVDs
1 Instructor Guide; 2 written test, 50 copies each

ITEM NO.
DV03

Shielded Metal Arc Welding DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete SMAW Training course	DV03	\$1,295.00

Shielded Metal Arc Welding 6-Inch Pipe Uphill Training Video Course:

Complete Course: 2 DVDs
1 Instructor Guide; 5 written test, 50 copies each

ITEM NO.
DV06

Shielded Metal Arc Welding DVDs, Instructor Guide, and 5 Written Test

Product	Item No.	List Price
Complete SMAWA-1 Training course	DV06	\$1,295.00

Shielded Metal Arc Welding-Downhill Training Video Course:

Complete Course: 2 DVDs
1 Instructor Guide; 2 written test, 50 copies each

ITEM NO.
DV04

Shielded Metal Arc Welding DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete SMAWA-2 Training course	DV04	\$1,295.00

COMPLETE TRAINING COURSES

Gas Metal Arc Welding Basic Training Video Course:

Complete Course: 3 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV10

Gas Metal Arc Welding Basic DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete GMAWB Training course	DV10	\$1,295.00

Gas Metal Arc Welding Advanced Training Video Course:

Complete Course: 2 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV11

Gas Metal Arc Welding Advanced DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete GMAWA Training course	DV11	\$1,295.00

Gas Metal Arc Welding Pipe Training Video Course:

Complete Course: 2 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV15

Gas Metal Arc Welding Pipe DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete GMAWP Training course	DV15	\$1,295.00

Flux-Cored Arc Welding Training Video Course:

Complete Course: 3 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV12

Flux Cored Arc Welding DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete FCAW Training course	DV12	\$1,295.00

COMPLETE TRAINING COURSES

Gas Tungsten Arc Welding Training Video Course:

Complete Course: 4 DVDS
1 Instructor Guide; 4 written test

ITEM NO.
DV20

Gas Tungsten Arc Welding DVDs, Instructor Guide, and 4 Written Test

Product	Item No.	List Price
Complete GMAWB Training course	DV20	\$1,295.00

Gas Tungsten Arc Welding 2-Inch Pipe Training Video Course:

Complete Course: 2 DVDS
1 Instructor Guide; 1 written test

ITEM NO.
DV22

Gas Tungsten Arc Welding 2-Inch DVDs, Instructor Guide, and 1 Written Test

Product	Item No.	List Price
Complete GMAWA Training course	DV22	\$1,295.00

Gas Tungsten Arc Welding-Shielded Metal Arc Welding 6-Inch Training Video Course:

Complete Course: 2 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV26

Gas Tungsten Arc Welding-Shielded Metal Arc Welding 6-Inch DVDs, Instructor Guide, and 4 Written Test

Product	Item No.	List Price
Complete GMAWP Training course	DV26	\$1,295.00

Oxyacetylene Welding, Cutting & Brazing Training Video Course:

Complete Course: 4 DVDS
1 Instructor Guide; 4 written test

ITEM NO.
DV30

Oxyacetylene Welding, Cutting & Brazing DVDs, Instructor Guide, and 4 Written Test

Product	Item No.	List Price
Complete OAW Training course	DV30	\$1,295.00

COMPLETE TRAINING COURSES

Welding Procedures & Qualification Training Video Course:

Complete Course: 1 DVD
1 Instructor Guide; 1 written test

ITEM NO.
DV86.3

Welding Procedures & Qualification DVDs, Instructor Guide, and 1 Written Test

Product	Item No.	List Price
Complete Training course	DV86.3	\$795.00

Welding Discontinuities & Defects Training Video Course:

Complete Course: 1 DVD
1 Instructor Guide; 1 written test

ITEM NO.
DV86.4

Welding Discontinuities & Defects DVDs, Instructor Guide, and 1 Written Test

Product	Item No.	List Price
Complete Training course	DV86.4	\$795.00

Destructive Testing Methods Training Video Course:

Complete Course: 1 DVD
1 Instructor Guide; 1 written test

ITEM NO.
DV86.5

Destructive Testing Methods DVDs, Instructor Guide, and 1 Written Test

Product	Item No.	List Price
Complete Training course	DV86.5	\$795.00

Nondestructive Testing Methods Training Video Course:

Complete Course: 1 DVD
1 Instructor Guide; 1 written test

ITEM NO.
DV86.6

Nondestructive Testing Methods DVDs, Instructor Guide, and 1 Written Test

Product	Item No.	List Price
Complete Training course	DV86.6	\$795.00

Common Arc Welding Processes Training Video Course:

Complete Course: 2 DVDS
1 Instructor Guide; 2 written test

ITEM NO.
DV85

Common Arc Welding Processes DVDs, Instructor Guide, and 2 Written Test

Product	Item No.	List Price
Complete Training course	DV85	\$795.00

COMPLETE TRAINING COURSES

Basic Metallurgy Training Video Course:

1 DVD

ITEM NO.

DV40

Basic Metallurgy DVDs

Product

Complete Basic Metallurgy Training course

Item No.

DV40

List Price

\$795.00

Symbols for Welding Training Video Course:

Complete Course: 1 DVD

ITEM NO.

1 Instructor Guide

DV80

Symbols for Welding DVDs and Instructor Guide

Product

Complete Symbols Training course

Item No.

DV80

List Price

\$895.00

Blueprint Reading for Welders & Fitters Training Video Course:

Complete Course: 2 DVDS

ITEM NO.

1 Instructor Guide

DV81

Blueprint Reading for Welders & Fitters DVDs and Instructor Guide

Product

Complete Blueprint Training course

Item No.

DV81

List Price

\$895.00

Advanced Blueprint Reading Training Video Course:

Complete Course: 1 DVD

ITEM NO.

1 Instructor Guide

DV83

Advamced Blueprint Reading DVDs and Instructor Guide

Product

Complete Advanced Training course

Item No.

DV83

List Price

\$895.00

WELDING TRAINING MATERIALS

Student Workbooks

Workbooks follow the DVDs topic-by-topic and take a step-by-step approach to practice sessions, featuring objectives; set-up instructions; materials and machine settings; and summaries of essential theory with many illustrations. All destructive tests are based on AWS®, ASME or API codes.



Oxyacetylene Welding

Consists of 30 topics which include 19 skill topics, 2 testing topics and 7 topics that cover essential theory. There is also course overview and introduction. 172 pages
Item No. EW369OAWList Price \$29.00

Shielded Metal Arc Welding 2 Inch Pipe Uphill

Consists of 15 topics which include 10 skill topics, 4 essential theory topics and course overview. 100 pages
Item No. EW369SMAWPU2List Price \$29.00

Shielded Metal Arc Welding Basic

Consists of 38 topics which include 29 skill topics with 8 of these topics covering essential theory and course overview, 4 testing topics and introduction. 188 pages
Item No. EW369SMAWBList Price \$29.00

Shielded Metal Arc Welding 6 Inch Pipe Uphill

Consists of 13 topics which include 6 skill topics, 5 essential theory topics and an introduction and course overview. 96 pages
Item No. EW369SMAWPU6List Price \$29.00

Shielded Metal Arc Welding Structural

Consists of 19 topics which include 9 skill topics, 9 essential theory topics and course overview. 104 pages
Item No. EW369SMAWA1List Price \$29.00

Shielded Metal Arc Welding Pipe Downhill

Consists of 14 topics which include 6 skill topics, 2 testing topics, 4 essential theory topics and an introduction and course overview. 92 pages
Item No. EW369SMAWPDList Price \$29.00

Shielded Metal Arc Welding Pre-Pipe

Consists of 19 topics which include 9 skill topics, 9 essential theory topics and course overview. 100 pages
Item No. EW369SMAWA2List Price \$29.00

Gas Metal Arc Welding Basic

Consists of 24 topics which include 19 skill topics and 5 essential theory topics. 96 pages
Item No. EW369GMAWBList Price \$29.00

WELDING TRAINING MATERIALS

Gas Metal Arc Welding Advanced

Consists of 15 topics which include 9 skill topics, 4 essential theory topics, an introduction and overview. 77 pages
Item No. EW369GMAWA.....List Price \$29.00

Gas Metal Arc Welding Pipe

Consists of 13 topics which include 6 skill topics, 5 essential theory topics, an introduction and overview. 76 pages
Item No. EW369GMAWP.....List Price \$29.00

Flux Cored Arc Welding

Consists of 15 topics which include 9 skill topics, 4 essential theory topics, an introduction and overview. 94 pages
Item No. EW369FCAW.....List Price \$29.00

Gas Tungsten Arc Welding

Consists of 33 topics which include 23 skill topics, 9 essential theory topics, an introduction and overview. 77 pages
Item No. EW369GTAW.....List Price \$29.00

Gas Tungsten Arc Welding 2 inch Pipe

Consists of 10 topics which include 5 skill topics, 4 essential theory topics, an introduction and overview. 52 pages
Item No. EW369GTAWP2.....List Price \$29.00

Gas Tungsten Arc Welding 6 Inch Pipe

Consists of 15 topics which include 9 skill topics, 5 essential theory topics, an introduction and overview. 96 pages
Item No. EW369GTAWP6.....List Price \$29.00

Gas Tungsten Arc Welding Advanced

Consists of 17 topics which include 8 skill topics, 4 essential theory topics, an introduction and overview. 77 pages
Item No. EW369GTAWA.....List Price \$29.00

Welding Procedures & Qualification

An explanation of the steps necessary to develop procedure and performance qualifications. 38 pages
Item No. EW512-3.....List Price \$29.00

Welding Discontinuities & Defects

An explanation of the welding discontinuities and defects in relation to welding procedure variables. 38 pages
Item No. EW512-4.....List Price \$29.00

Destructive Testing

An explanation of destructive testing and results obtained. 44 pages
Item No. EW512-5.....List Price \$29.00

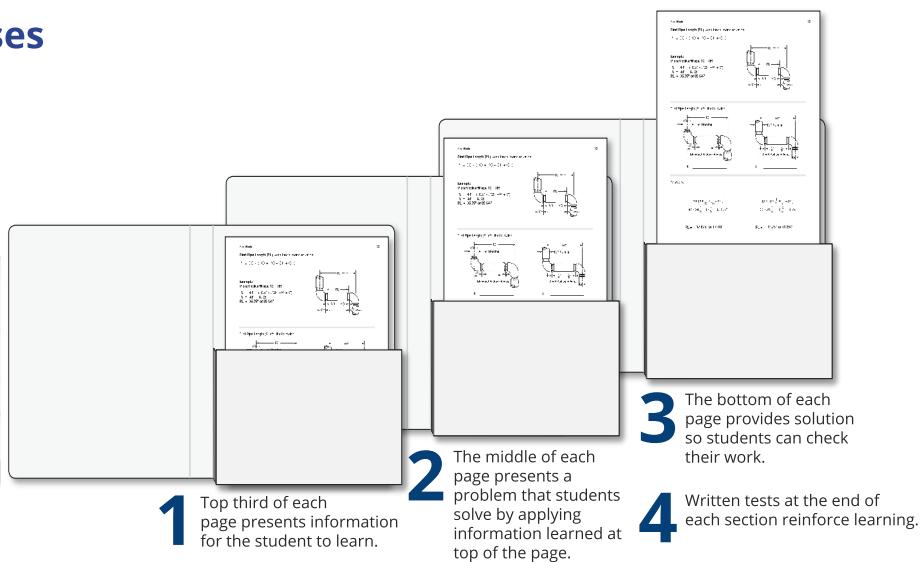
Nondestructive Testing

An explanation of nondestructive testing and results obtained. 34 pages
Item No. EW512-6.....List Price \$29.00

WELDING TRAINING MATERIALS

Programmed Learning Courses

These courses provide a simple, and yet complete method, for students to learn and understand the principles of welding symbols, symbols for nondestructive examination, blueprint reading and pipe layout. Each page is designed to teach a small amount of information which is reinforced through an action/problem and self-check (see illustration at right). Each page builds for the next as the student learns in an efficient and rewarding manner.



Symbols for Welding **UPDATED 2024**

The symbols for welding course is based on AWS® A2.4 Symbols for Welding and Nondestructive Examination Standard. This system of communication provides a vital link between the designer and the individuals responsible for producing and planning welding. 3 Tests are included with each student packet. 122 pages. (**Symbols packet is designed to be utilized with the updated DVD program.**)

Product	Item No.	List Price
Symbols for Welding.....	EW-342	\$33.00
Key to test.....	EW-343	\$10.95

Symbols for Nondestructive Examination

This course is designed to teach students how to interpret nondestructive examination symbols based on AWS® 2.4. The first part of the course serves as an introduction, which is deemed beneficial for those not familiar with welding symbols. 1 Test is included with each student packet. 38 pages.

Product	Item No.	List Price
Symbols for Nondestructive Examination.....	EW-457	\$20.00
Key to test.....	EW-458	\$9.95

Blueprint Reading for Welders & Fitters **UPDATED 2025**

The Blueprint Reading for Welders and Fitters course contains valuable information on mathematics and metrics, blueprint reading for the welder, blueprint reading for the fitter, setup tools, and set-up applications. 5 Tests are included with each student packet. 176 pages.

Product	Item No.	List Price
Blueprint Reading for Welders and Fitters.....	EW-459	\$33.00
Key to test.....	EW-460	\$11.95

Advanced Blueprint Reading

This two packet course covers the design procedure; an interpretation of blueprints and shop drawings as well as applying this information; the use of measuring tools in layout and assembly; the basics of codes, specifications and standards and to be aware of the responsibility of a welder in quality control. 11 tests included with the packets. 185 pages.

Product	Item No.	List Price
Advanced Blueprint Reading (2 Packets).....	EW-462	\$58.00
Key to test.....	EW-463	\$11.95

Student Workbook Package

Introduction to Metal Fabrication

This course provides a solid foundation in the principles and practices of metal fabrication, making it ideal for students and entry-level professionals. Topics include an Overview of Fabrication, Math Review, Trigonometry, Common Materials and Shapes, Layout, Material Reduction, Hole Making Operations, Arc Welding Selection, and Work Holding. The course includes three quizzes to reinforce learning and integrated projects that give students hands-on experience with real-world fabrication tasks. 270 pages.

Product	Item No.	List Price
Introduction to Metal Fabrication	EW-809	\$85.00
Key to quiz	EW-811	\$12.95

Pipe Layout for Pipefitters & Welders

This course introduces students to the essential skills and knowledge needed for pipe layout and fabrication. Topics include Piping Systems and the Role of the Pipefitter, Math Review, Understanding Steel Pipe, Introduction to Fittings, Pipe Length Calculations, Piping Blueprints, and Layout and Fabrication Methods. The course features three quizzes to reinforce key concepts and an integrated project that provides hands-on experience with real-world pipe layout tasks. 286 pages.

Product	Item No.	List Price
Pipe Layout for Welders & Fitters	EW-518	\$85.00
Key to test	EW-519	\$12.95

WELDING TRAINING MATERIALS

Technical Guides

These guides contain extensive welding information on individual welding processes and welding subjects. They supplement the student workbooks for welding training and have an application for manufacturing engineering and quality control. Books are in full color.

Welding Guide — Provides general welding information including common arc welding process descriptions, weldability of metals, non-destructive testing process descriptions, welding data charts and tables, and metric conversion. 117 pages.

Item No. EW-385List Price \$33.00

Gas Tungsten Arc Welding — Covers the process in detail, equipment, applications, procedures, welding training and safety. 98 pages.

Item No. EW-470List Price \$33.00

Shielded Metal Arc Welding — Describes the SMAW process, procedures and applications, electrode selection charts, welding safety and explains the equipment used. 78 pages.

Item No. EW-472List Price \$33.00

Gas Metal Arc Welding — Provides an explanation of the GMAW process, equipment, applications, procedures, safety and welding symbols. 110 pages.

Item No. EW-473List Price \$33.00

Flux-Cored Arc Welding — This guide describes the self-shielded and gas shielded processes, equipment, methods of application, safety and procedures. 98 pages.

Item No. EW-492List Price \$33.00

Safety and Health of Welders — A valuable guide to protection against the hazards associated with welding. 23 pages.

Item No. EW-607List Price \$20.00

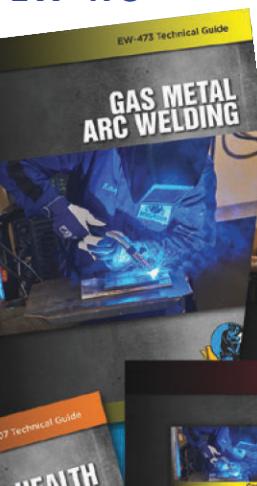
Oxyfuel Welding, Cutting & Brazing — This guide covers the process, equipment, and safety. 82 pages.

Item No. EW-480List Price \$33.00

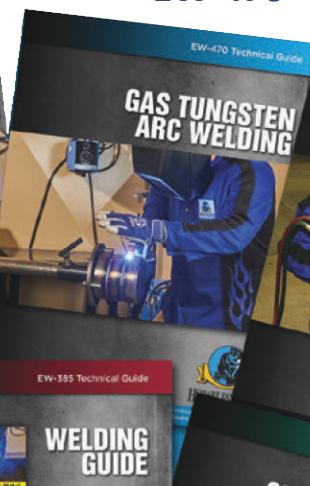
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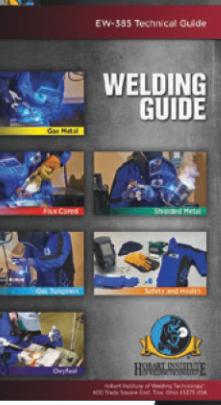
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WELDING TRAINING MATERIALS

General Welding Books

Pocket Welding Guide, 32nd Edition — Known as the "Welder's Bible", and widely used by students, teachers, hobbyists and professionals as a handy reference, this updated edition features: overview of all welding processes, examples of good and bad weld beads, causes & cures of common welding problems, welding symbols, guidelines for the identification of metals & calculating filler metal consumption, oven storage & reconditioning of filler metals, shielding gases & their uses, AWS® filler metal classifications & comparative indices, GMAW welding parameters, complete listing of filler metals with operating ranges, filler metals selector guide for welding ASTM steels, troubleshooting guides for semiautomatic wire & equipment, welding terms & definitions, metric conversions tables, and more. 164 pages. 4" x 7" format.

Item No. EW-609 List Price \$9.00

WELDING: A Journey to Explore its Past by Andre A. Odermatt —

What is this simple but complex process called welding? When did it begin? This book is a humble attempt to answer just a few questions about the origins of welding. It is not a textbook or an academic paper. It aims to give the reader some basic knowledge of a few aspects of the history of welding and its problems and its contribution to society, from antiquity to modern times, from brazing and forging, to gas welding and electric welding.

Item No. EW-806 1st Edition 181 Pages List Price \$10.00
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All proceeds go to the Andre A. Odermatt Scholarship

Properties and Uses of Ferrous and Non-ferrous Metals

by Weiss & Leuchtman. 112 pages.

Item No. EW-220 List Price \$24.95

The Metal Trades & Welding Handbook — A book covering all aspects of the metal trades from roping to welding. 581 pages.

Item No. EW-676 List Price \$31.25



Pipe Welding & Pipe Layout Books

Pipefitters Handbook — A comprehensive reference including tables for pipe bends, offsets, mitered joints and other useful information for shop and field use. Leatherette bound. 444 pages.

Item No. EW-389 List Price \$42.00

Pipe Trades Pocket Manual by Frankland — Tables for bending, offsets, miter turn fittings, elbow offsets, solving angles with steel square and more. Leatherette bound. 262 pages.

Item No. EW-390 List Price \$35.00

The Pipe Fitters and Pipe Welders Handbook by Frankland — Pocket size booklet containing layout information for making all types of pipe joints. Leatherette bound. 194 pages.

Item No. EW-234 List Price \$34.00

Pipe Trades Handbook — Covers basic data on tube and pipe, national standards, fittings, valves, joints, offsets, pipe layout, mathematics and pipe welding. 534 pages.

Item No. EW-696 List Price \$31.25

PipeFitters Bluebook — Contains charts, tables, drawings, instructions on pipe joints and layout. 176 pages.

Item No. EW-697 List Price \$25.00

Pipe Layout for Pipefitters and Welders

This course introduces students to the essential skills and knowledge needed for pipe layout and fabrication. Topics include Piping Systems and the Role of the Pipefitter, Math Review, Understanding Steel Pipe, Introduction to Fittings, Pipe Length Calculations, Piping Blueprints, and Layout and Fabrication Methods. The course features three quizzes to reinforce key concepts and an integrated project that provides hands-on experience with real-world pipe layout tasks. 286 pages.

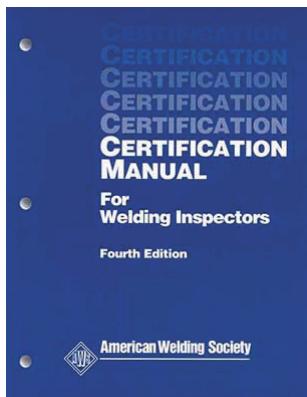
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Answer Key

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WELDING TRAINING MATERIALS

AWS® Books



Certification Manual for Welding Inspectors — A great study aid for the AWS® CWI®/CWE® exam. Reduce those day-of-test jitters by putting yourself in command of the material that everyone must know to succeed on the CWI® exam. Over 360 questions and answers. Item No. EW-475 List Price \$228.00

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API Standard 1104, Standard for Welding Pipelines and Related Facilities 22nd Edition — This code book published by the American Petroleum Institute provides the complete and detailed information needed by welders, inspectors and engineers.

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AWS® Structural Welding Code, D1.1 — Complete structural welding code for buildings, bridges, and other welded structures. Welding engineers, inspectors and others involved with design and quality control of welded structures should have this book for guidance and reference.

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Welding Inspection — Essential information for the CWI® on manual arc welding inspection techniques including destructive testing and nondestructive examination methods.

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Welding Terms and Definitions — The comprehensive and official listing of welding and cutting terms and definitions.

(A3.0M/ A3.0:2020)

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Used to check undercut, crown heights, porosity and pits.

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A valuable tool for measuring both convex and concave fillet weld dimensions.

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WELDING TRAINING MATERIALS

Wall Posters



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Shielded Metal Arc Welding (SMAW)	EW-901	\$18.00
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ONLINE EDUCATION



OL-001 Symbols For Welding Online Course .4 CEU \$89.00 SELF-PACED

This online version of Symbols for Welding course is based on the AWS® A2.4 Symbols for Welding and Nondestructive Examination Standard. This system of communication provides the vital link between the designer and the people responsible for producing and planning welding.

Within the online course you will have the opportunity to download the EW-342 Symbols for Welding Learning Packet and work on specific problems; view the Symbols for Welding videos which are broken down into topic sections; take each of the 3 required test. Each test may be taken two times.

Your password is good for a period of one year with unlimited log-ins during that time. Completion time for the course varies with each individual. Take into consideration the necessary time required to watch the videos in addition to the time needed to work through the learning packet and the time to take the test. You may start and stop at any point.

Upon purchase of the course, you will receive an email of your online receipt of purchase and a separate email with account access instructions and link to online course.

You may add the optional paper version of the Symbols for Welding Programmed Learning Packet (EW342) containing 113 pages, which will be mailed to you. Three test are included with each student packet.

OL-002 Visual Inspection Welding Online Course .4 CEU \$89.00 SELF-PACED

This course concentrates on the single most used method of welding inspection — what we can see with the naked eye. Anyone involved with arc welding inspection, quality control, engineering or supervision should know the fundamentals of what to observe, prior to, during and after welding.

Contains 5 video segments totaling a run time of 60 minutes.

During this course you will learn about common weld gauges, temperature indicators, marking repair welds, visual inspection prior to, during, and after welding, terminology of weld defects, general requirements for equipment and workmanship standards, and a visual inspection checklist.

At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.

OL-003 Welding Discontinuities & Defects Online Course .4 CEU \$89.00 SELF-PACED

This course concentrates on defects and discontinuities related to welding and is intended to assist anyone involved in arc welding inspection, quality control, engineering or supervision. The objective is to be able to identify and determine the common causes of weld discontinuities and defects.

Contains 5 video segments totaling a run time of 70 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

IMPORTANT

HIWT reviews each order for accuracy and to protect you and HIWT from fraud. After authorization and capture of your payment by HIWT personnel, you will be sent an email (typically within 1 business day) with access instructions for your course. Make sure to watch your incoming mail and spam folder. When you score 76% or higher, a Certificate of Completion will be issued for you to print that will contain the continuing education units earned for the online course. In addition, please add "welding.org" to your trusted/safe sender's list.



OL-004 Destructive Testing Methods Online Course .4 CEU \$89.00 SELF-PACED

This course concentrates on the various destructive testing methods used to evaluate welds including tensile and impact tests, guided bend tests, nick break tests, fillet weld break tests, and etch tests. It is intended for those involved in welding inspection, quality control, engineering or supervision. The objective is to be able to perform tests and determine the weld defects.

Contains 7 video segments totaling a run time of 43 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

OL-005 Nondestructive Testing Methods Online Course .4 CEU \$89.00 SELF-PACED

This course concentrates on the various nondestructive testing methods used to evaluate welds including visual inspection, liquid penetrant testing, magnetic particle testing, ultrasonic testing, and radiographic testing. It is intended for those involved in welding inspection, quality control, engineering or supervision. The objective is to be able to evaluate welds and determine the weld defects.

Contains 6 video segments totaling a run time of 45 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

OL-006 Welding Characteristics Of Steel, Stainless Steel, & Other Metals .4 CEU \$89.00 SELF-PACED

This course will provide the non-metallurgist with basic knowledge of various metals and their weldability. Anyone involved with welding will benefit from better understanding of welding with different metals. Students will learn the basic principles of metal properties, heat input, preheating, postheating, selecting filler metals plus many more topics including:

- Welding stainless steels
- Welding tool and die steels
- Welding aluminum alloys
- Welding magnesium alloys
- Welding cast iron
- Hard surfacing
- Metals identification for welding
- Welding carbon and low alloy steels

The course consists of 4 main topics:

1. The Metallurgy & Weldability of Carbon Steel
2. The Welding Characteristics of Stainless Steel and Tool Steels
3. The Welding Characteristics of Aluminum and Magnesium
4. Welding Cast Iron and Hard Surfacing Welds

Each topic contains slide segments, video segments and quizzes. The total running time for the video segments is approximately 60 minutes. Once you have completed the 4 topic quizzes and achieved at least a 76% you will then be able to generate a certificate of completion.

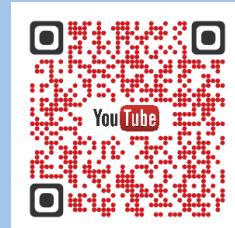
OL-007 Welding Procedures & Qualification .4 CEU \$89.00 SELF-PACED

This course concentrates on the steps typically followed when developing and qualifying Welding Procedure Specifications (WPS). Additionally, welder and welding operator performance qualification will be discussed.

Contains 1 main topic covering welding codes, procedures, and welder qualification plus 5 video segments totaling a run time of 25 minutes. Quizzes are provided to measure progress along the way with a final test to obtain a certificate of completion.

At your own pace from your computer you will view videos and will be able to take (and retake) online competency exams.

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