

OCT 26 2015

TP ACADEMIC SERVICES LAS POSITAS COLLEGE

Instructional Equipment Request 2015-16

FALL 07

SECTION 1: SUMMARY INFORMATION

Brief Title of the Request: Welding Code Books

Equipment Location:

810

Name of Requestor: Scott Miner

Division/ Unit:

STEMPS/WLDT

SECTION 2: EQUIPMENT DESCRIPTION

Check one of the following:

The equipment is:

XX Upgrade

Describe the specific equipment requested and how it will be used to replace, upgrade or provide new technology to the college from what is currently in place? If there is a legal requirement, a mandate, or safety concern for purchase of this equipment, please discuss and make specific reference to that regulation/concern. (Cost data should be recorded in Sec. 7)

We are asking for a series of welding code books to update the reference material available to students and instructors. The code was updated in 2015

SECTION 3: EDUCATIONAL ITEMS- PROGRAM REVIEW

Which educational programs or institutional purposes does this equipment support?

Welding, Engineering Technology, Engineering

Is this equipment included in your Program Review?

XXYes

No

If yes, please cut and paste the appropriate wording here. If not, explain why.

Quote from program review on New Initiatives:

To stay current with our goal to certify student welders, we need new American Welding Society Code Books as the old ones have been revised.

SECTION 4: TEACHING AND LEARNING

Describe in some detail the impact this equipment will have on teaching and learning.

Impact on teaching:

Use of outdated standards would not be considered a best practice

Impact on learning:

Bring the department and students up to current industry standards

Per academic year, this equipment will impact:

Number of classes or sections 30-40 course sections/year

Number of students 200-300 students/year (Entire Welding Program)

Vendor Discount	0	
Any Other Costs- training, etc.	0	Specify
Local Sales Tax	187.10	Included in equipment
Grand Total Costs =	2156.10	Click the \$ and press F9 to calculate the grand total

A completed purchase order(s) and quote(s) for this total cost must be attached.

Part B: On-going Annual Operating Costs

Costs

Annual service or maintenance contract	\$ 0	
Estimated parts replacement each year	0	
Outside standardization or calibration costs	0	How often?

Funded requestors will be expected to respond to a brief RAC feedback survey by a requested deadline. Requests for computer related equipment & printers must be reviewed by LPC IT Department

IT Department Authorized Signature:

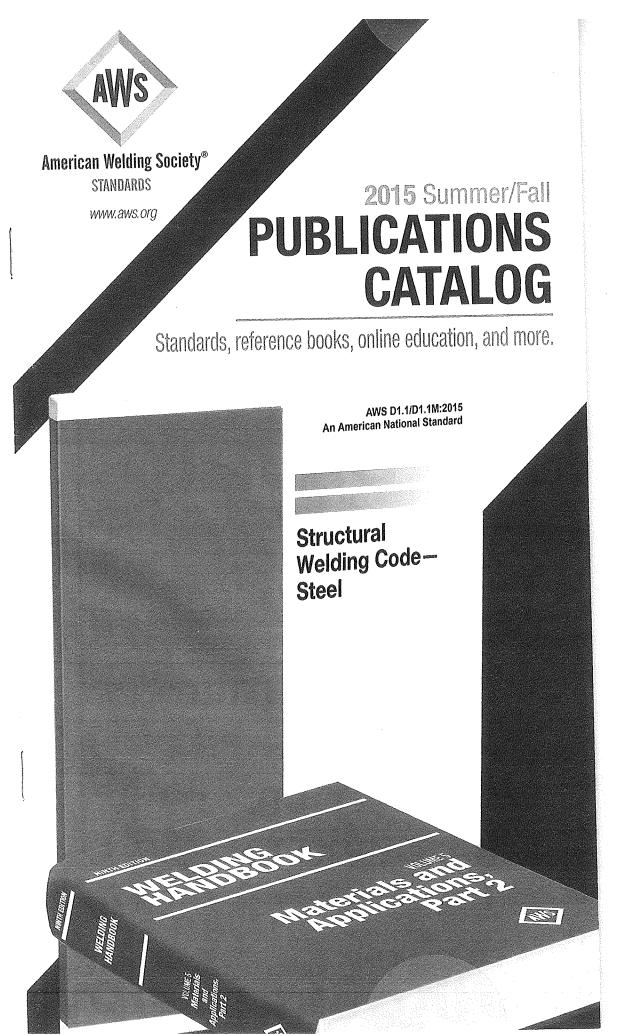
Signatures:

Dean/Manager
Date Originated:

Date Received

Date Received

Date Received



STRUCTURAL



NEW EDITION: D1.1/
D1.1M:2015, Structural
Welding Code—Steel
For everyone involved in
any phase of welding steel
structures – engineers, detailers,
fabricators, erectors, inspectors,
etc. – the latest D1.1 spells out
the requirements for design,
procedures, qualification,
fabrication, inspection, and repair
of steel structures made of tubes,
plate, and structural shapes that
are subject to either static or
cyclic loading. U.S. Customary and

SI units of measurement. Over 620 pages, 20 annexes, 180 figures and 99 tables.

Order Code: D1.1	\$548/\$411
Spanish edition (2010)	\$500/\$375
English and Spanish editions bundle	\$891/\$673
Chinese, Portuguese or	
Russian (2010)editions	\$528/\$396

D1.1-SWJ-WC, Welded Joint Details for Structural Applications Wall Chart A 36"-by-27" wall chart with selected joint details

conforming to D1.1/D1.1M:2008 and 2010, applicable to low-carbon steel plate and shapes for structural applications.

Order Code: D1.1-SWJ-WC \$44/\$33

D1.1-BI, The Official Book of D1.1 Interpretations A collection of responses to formal inquiries about the requirements of AWS D1.1 from 1976 to 2006. An excellent reference for AWS D1.1 users. 54 pages, 6 figures.

Order Code: D1.1-Bl.....\$68/\$51

D1.2/D1.2M:2014, Structural Welding Code—Aluminum

Covers welding requirements for any type of structure made from aluminum structural alloys, except aluminum pressure vessels and fluid-carrying pipelines. Includes sections on design of welded connections, procedure and performance qualification, fabrication, inspection, stud welding, and strengthening and repair of existing structures. A commentary offers guidance on interpreting and applying the code. 230 pages.

D1.3/D1.3M:2008, Structural Welding Code— Sheet Steel

Covers arc welding of structural sheet/strip steels, including cold formed members, equal to or less than 3/16 in. (0.188 in./4.8 mm) nominal thickness and having a minimum specified yield point no greater than 80,000 psi (550 MPa). Applicable to welding of commonly used structural quality low-carbon hot rolled and cold rolled sheet and strip steel, with or without zinc coating (galvanized), to other structural sheet steels or to supporting structural steel members. Three weld types unique to sheet steel — arc spot, arc seam, and arc plug welds — are included. Includes sections on design, procedure and performance qualification, fabrication, inspection and stud welding as well as a commentary. 98 pages, 7 annexes, 44 figures, 11 tables, 3 forms.

Order Code: D1.3 \$124/\$93

D1.4/D1.4M:2011, Structural Welding Code— Reinforcing Steel

Covers welding of reinforcing steel in most reinforced concrete applications. Includes sections on allowable

NEW EDITION: AASHTO/AWS D1.5M/D1.5:2015, Stigge Welding Code

In latest code requirements and associated mentary for bridge fabrication with carbon, low-alloy high strength, and high performance steels. Covers welding requirements of the American Welding Society (AWS) and the American Association of State Highway and Transportation Officials (AASHTO) for welded highway bridges made from carbon, low-alloy high strength, and high performance steels. Covers design of welded connections, workmanship, technique, procedure and performance qualification, in pection, and stud welding. Features the latest AWS and AASHTO revisions and nondestructive examination requirements, as well as a section providing a "Fracture Control Plan" for non-redundant bridge

"Fracture Control Plan" for non-redundant bridge members." Revisions include:

Revised welding procedure qualification requirements
 New requirements for phased array ultrasonic testing

490 pages, 18 annexes, 95 figures, 49 tables, 9 forms, commentary.

Spanish edition (2010)	((0	Ird	ler	Co	de:	D1.	.5		 	 \$380/	\$285
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D1.6/D1.6M:2007, Structural Welding Code— Stainless Steel

Covers requirements for welding stainless steel structural assemblies/components (excluding pressure vessels or pressure piping) using gas metal arc welding, shielded metal arc welding, flux cored arc welding, submerged arc welding, and stud welding. Allows prequalified Welding Procedure Specifications for the austenitic stainless steels based on considerable experience with the most widely used stainless steels. Sections include design, procedure and performance qualification, fabrication, inspection, and stud welding.

D1.7/D1.7M:2010, Guide for Strengthening and Repairing Existing Structures
Provides engineers and contractors with general direction and guidance on weld repairs, weld strengthening, and other procedures to correct problematic issues with existing structures made of steel (minimum yield strength of 100 ksi and minimum thickness of 1/8 inch), cast iron, and wrought iron. 52 pages, 4 tables.

Order Code: D1.7 \$112/\$84

D1.8/D1.8M:2009, Structural Welding Code— Seismic Supplement

A supplement to AWS D1.1, Structural Welding Code—Steel. Applicable to welded joints in seismic load resisting systems designed in accordance with the Seismic Provisions of the American Institute of Steel Construction, Inc. Covers additional controls on detailing, materials, workmanship, testing, and inspection necessary to achieve adequate performance of welded steel structures under conditions of severe earthquake-induced inelastic straining. Includes a commentary offering guidance on interpreting and applying this supplement. 124 pages, 9 annexes, commentary, 22 figures, 8 tables.

Order Code: D1.8.....\$136/\$102

D1.9/D1.9M:2007, Structural Welding Cod Titanium

The Everyday Pocket Handbook for Visual Inspection of AWS D1.1 Structural Welding Code's Fabrication and Welding Requirem (Historical)

ASTM Standards for Welding

A compilation of all 60 ASTM standards reference by AWS D1.1 Structural Welding Code—Steel. An excellent companion to D1.1, it can be ordered savings bundled with D1.1/D1.1M:2015. 565 per 60 standards.

Order Code: ASTMSW	Seg
ASTM Standards bundled with D1.1/D1.1Mb	201
Order Code: ASTMD1	993



D9.1M/D9.1:2012, Sheet Metal Welding Cor Covers arc and braze welding requirements for nonstructural sheet metal fabrications using convelded metals available in sheet form up to and including 3 gauge, or 6.07 mm (0.239 in.). Applied the code include heating, ventilating, and air conditioning systems, food processing equipment architectural sheet metal, and other nonstructural sheet metal applications. Sections include processing equipment and performance qualification, workmanship, and approximation on materials and processes. Not apply when negative or positive pressure exceeds 30 in 150.72 pages, 29 figures, 10 tables.

01.3/D1.3M:2008, Structural Welding Code Sheet Steel

Tovers are welding of structural sheet/strip steets notuding cold formed members, equal to or less 3 16 in. (0.188 in./4.8 mm) nominal thickness am having a minimum specified yield point no greate man 80,000 psi (550 MPa). Applicable to we do commonly used structural quality low-carbon in and cold rolled sheet and strip steel, with or zinc coating (galvanized), to other structural shee steels or to supporting structural steel members. weld types unique to sheet steel - arc spot, arc s and arc plug welds - are included, includes section er design, procedure and performance qualification teorication, inspection and stud welding as well a a commentary, 98 pages, 7 annexes, 44 floures. es. 3 forms.

9M:2012, Test Methods for Evaluating to Sesistance Spot Welding Behavior of Autom Seet Steel Materials

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structural details, workmanship requirements, procedure and performance qualification, ction. Figures clearly illustrate important presiderations, unacceptable weld profiles, well sizes details of joints of anchorages, es and inserts. Now addresses precast components. Clarification on prequalified id essential variables for fillet welds. New acceptance criteria for macroetch pages, 19 figures, 12 table.\$120/\$90

TICK AASHTO/AWS D1.5M/D1.5:2015, Paris na Coda

plant code requirements and associated may for bridge fabrication with carbon, high strength, and high performance steels. eliting requirements of the American Welding American Association of State and Transportation Officials (AASHTO) for nghaiz, bridges made from carbon, lowa strength, and night performance steels. estate of weided connections, workmanship, smoothure and performance qualification, and stud welding. Features the latest AWS HTT revisions and nondestructive examination as a section providing a a Canada Plan' for non-redundant bridge s." Revisions include:

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ges, 14 annexes, 80 figures, 29 tables. \$244/\$183

M.7M.2010, Guide for Strengthening and ing Existing Structures

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S136/\$102

D1.9/D1.9M:2007, Structural Welding Code-Titanium

Covers requirements for design, welding, and inspection of any type of titanium structure. Includes qualification requirements for weld procedures and personnel. 162 pages, commentary, 6 annexes, 53 figures, 19 tables.

Order Code: D1.9.....\$120/\$90

The Everyday Pocket Handbook for Visual Inspection of AWS D1.1 Structural Welding Code's Fabrication and Welding Requirements (Historical)

Compilation of excerpts from D1.1/D1.1M:2004. Includes transitions between unequal thickness, access hold requirements, pre-weld joint detail, base material surface and weld profile requirements, and five pages of visual acceptance criteria. Useful when actual D1.1 code is too cumbersome for tight, on-the-job areas. 38 pages, spiral-bound. 31/2" x 6".

Order Code: PHB-6\$24/\$18

ASTM Standards for Welding

A compilation of all 60 ASTM standards referenced by AWS D1.1 Structural Welding Code-Steel. An excellent companion to D1.1, it can be ordered at a savings bundled with D1.1/D1.1M:2015. 565 pages, 60 standards.

Order Code: ASTMSW\$490/\$368 ASTM Standards bundled with D1.1/D1.1M:2015 Order Code: ASTMD1\$935/\$702

SHEET METAL

D9.1M/D9.1:2012, Sheet Metal Welding Code Covers arc and braze welding requirements for nonstructural sheet metal fabrications using commonly welded metals available in sheet form up to and including 3 gauge, or 6.07 mm (0.239 in.). Applications of the code include heating, ventilating, and air conditioning systems, food processing equipment, architectural sheet metal, and other nonstructural sheet metal applications. Sections include procedure and performance qualification, workmanship, and inspection. Nonmandatory annexes provide useful information on materials and processes. Not applicable when negative or positive pressure exceeds 30 kPa (5 psi). 72 pages, 29 figures, 10 tables. Order Code: D9.1\$76/\$57

D1.3/D1.3M:2008, Structural Welding Code-Sheet Steel

Covers are welding of structural sheet/strip steels, including cold formed members, equal to or less than \$16 in. (0.188 in./4.8 mm) nominal thickness and aving a minimum specified yield point no greater man 80,000 psi (550 MPa). Applicable to welding of commonly used structural quality low-carbon hot rolled and cold rolled sheet and strip steel, with or without znc coating (galvanized), to other structural sheet steels or to supporting structural steel members. Three weld types unique to sheet steel - arc spot, arc seam, and arc plug welds - are included. Includes sections and design, procedure and performance qualification, izorication, inspection and stud welding as well as acommentary, 98 pages, 7 annexes, 44 figures, 11 es, 3 forms.

Times Code: D1.3.....\$124/\$93

38.9M:2012, Test Methods for Evaluating the **Mesistance Spot Welding Behavior of Automotive** Seet Steel Materials 🐲 page 36



Bundle A:2015

- D1.1/D1.1M:2015, Structural Welding Code-Steel
- A2.4:2012, Standard Symbols for Welding, Brazing, and Nondestructive Examination
- A3.0M/A3.0:2010, Standard Welding Terms and Definitions

Individual catalog prices\$876/\$657 SAVE \$131/\$98

Order Code: RUNDLE A-2015

\$745/\$559

Bundle B:2015

- D1.1/D1.1M:2015, Structural Welding Code-Steel
- D1.2/D1.2M:2014, Structural Welding Code— Aluminum
- D1.3/D1.3M:2008, Structural Welding Code-Sheet Steel
- D1.4/D1.4M:2011, Structural Welding Code-Reinforcing Steel
- D1.5M/D1.5:2015. Bridge Welding Code
- D1.6/D1.6M:2007, Structural Welding Code-Stainless Steel

Individual catalog prices \$1,612/\$1,209 SAVE \$241/\$181

Order Code: BUNDLE B:2015 \$1,371/\$1,028

Bundle C:2015

- A2.4:2012, Standard Symbols for Welding, Brazing. and Nondestructive Examination
- . D1.5M/D1.5:2015, Bridge Welding Code

Individual catalog prices\$528/\$396 SAVE \$79/\$59

Order Code: BUNDLE C:2015 \$449/\$337

Bundle D:2015 (Seismic Bundle)

- D1.1/D1.1M:2015, Structural Welding Code-Steel
- D1.8/D1.8M:2009, Structural Welding Code—Seismic Supplement

Individual catalog prices\$684/\$513 SAVE \$102/\$76

Order Code: BUNDLE D:2015 \$582/\$437

FOR HEAVY MACHINERY BUNDLES

see page 37

Under strict American National Standards Institute (ANSI) procedures, AWS has developed more than 230 consensus-based standards (including codes, product specifications, recommended practices, methods, and quidelines) for welding and allied processes. Many are adopted by DoD and preferred by NASA.

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