



# 2013-2014 **ASME Product Catalog**

A Guide to ASME's Mechanical Engineering Products and Services

## **INSIDE**

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ASME codes and standards, publications, conferences, continuing education and professional development programs provide a foundation for advancing technical knowledge and a safer world.

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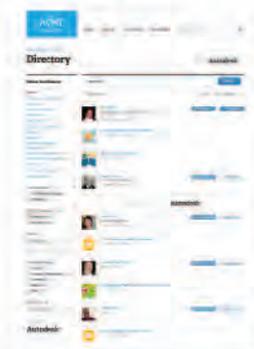
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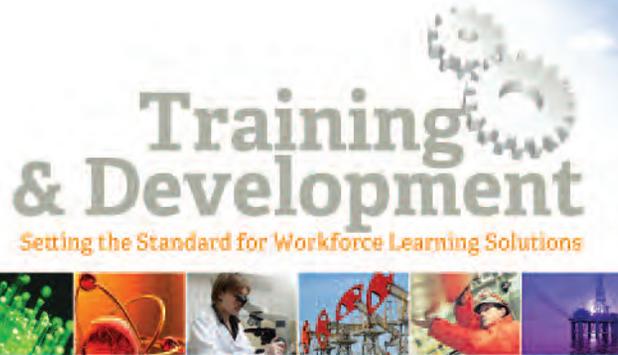
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*ASME 2013 Boiler and Pressure Vessel Code (p. 33)*



## Chains

*Standards for dimensions of transmission and conveyor chains.*



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B29.24M-2002 (R2009)  
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*Safety requirements for the assembly, maintenance, and operation of controls and safety devices installed on automatically operated boilers directly fired with gas, oil, gas/oil, or electricity.*

CSD-1-2012  
**Controls and Safety Devices for Automatically Fired Boilers**  
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## Conveyors

*Safety standard for the design, construction, installation, maintenance, inspection, and operation of conveyors and conveying systems.*



B20.1-2012  
**Safety Standard for Conveyors and Related Equipment**  
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## Cranes and Hoists

*Safety standards for the construction, installation, operation, inspection, and maintenance of jacks, cranes, monorails, derricks, hoists, hooks, slings, and cableways; and specification standards for hoists.*



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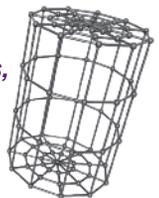
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## Dimensions

*Standards for limits and fits,  
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# ASME Crane Standards

## Standards for Engineers Worldwide

ASME has been defining crane safety since 1916.

ASME's B30.5 is one of ASME's most popular standards— widely respected and applied throughout the building and construction industry. It addresses mobile cranes, crawler cranes, locomotive cranes, wheel-mounted cranes, and any variations thereof that retain the same fundamental characteristics and are powered by internal combustion engines or electric motors.

ASME's B30.2 addresses a key category within material-handling -- providing requirements for hand-operated and power-driven overhead and gantry cranes that have a top-running single-girder or multiple-girder bridge, with one or more top-running trolley hoists used for vertical lifting and lowering of freely suspended, unguided loads consisting of equipment and materials.

Both safety standards cover construction, installation, operation, inspection, and maintenance.

---

### OTHER KEY CRANE STANDARDS:

- B30.3-2012  
**Tower Cranes**
- B30.20-2010  
**Below-the-Hook Lifting Devices**
- BTH-1-2011  
**Design of Below-the-Hook Lifting Devices**
- B30.10-2009  
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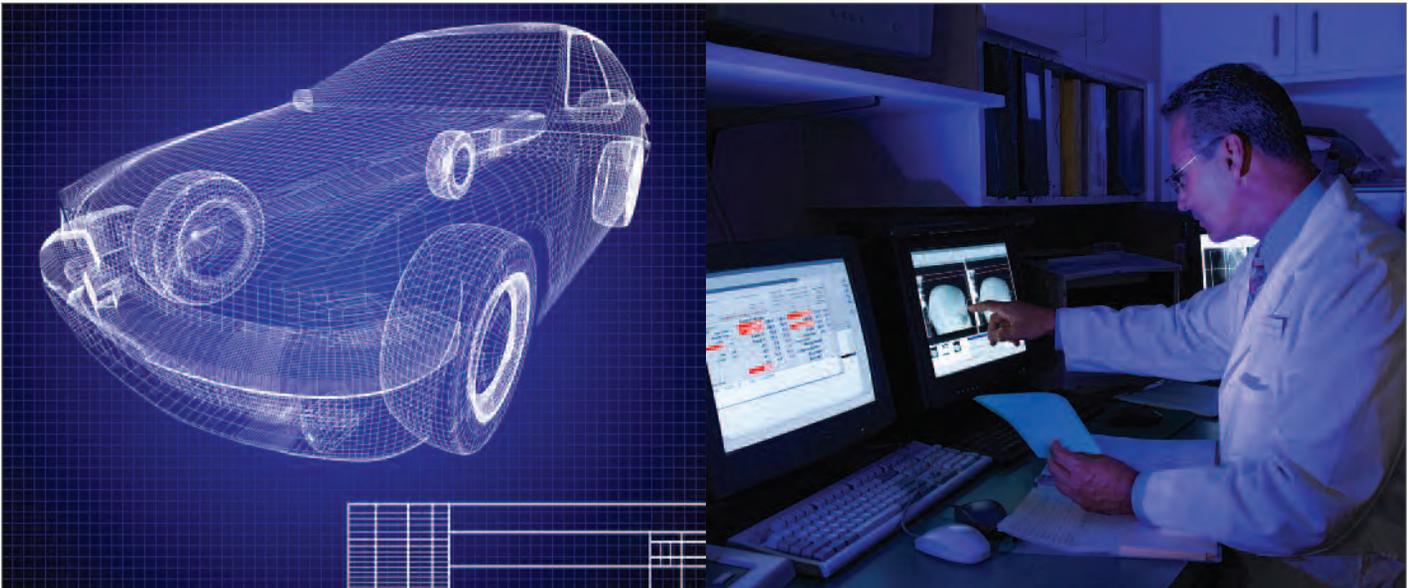
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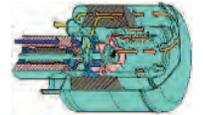
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ASME has been defining piping safety since 1922.

ASME's widely-adopted B31.1 Code prescribes minimum requirements for the design, materials, fabrication, erection, test, inspection, operation, and maintenance of piping systems typically found in electric power generating stations, industrial and institutional plants, geothermal heating systems, and central and district heating and cooling systems.

ASME's companion B31.3 Code contains requirements for piping typically found in petroleum refineries; chemical, pharmaceutical, textile, paper, semiconductor, and cryogenic plants; and related processing plants and terminals. Both codes cover materials and components, design, fabrication, assembly, erection, examination, inspection and testing of piping.

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### Other key B31 codes include:

- B31.4-2012  
**Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids**
  - B31.5-2013  
**Refrigeration Piping and Heat Transfer Components**
  - B31.8-2012  
**Gas Transmission and Distribution Piping Systems**
  - B31.8S-2012  
**Managing System Integrity of Gas Pipelines**
  - B31.9-2011  
**Building Services Piping**
  - B31Q-2010  
**Pipeline Personnel Qualification**
- 

**Intended for** manufacturers, designers, operators and owners of piping systems including, but not limited to, steam, water, oil, gas, and air services, plus all potential governing entities.

**For information on the complete series of B31 codes, visit [go.asme.org/B31](http://go.asme.org/B31)**

# 2013 Boiler and Pressure Vessel Code (An International Code)

**T**he Boiler and Pressure Vessel Code (BPVC) establishes rules of safety, relating only to pressure integrity, governing the construction of boilers, pressure vessels, transport tanks, and nuclear components, and inservice inspection for pressure integrity of nuclear components and transport tanks. Advancements in design and materials and the evidence of experience are constantly being added with each new BPVC Edition.

Starting with this 2013 Edition, the BPVC will be moving to a two-year publishing cycle vs. its former three-year cycle. No longer will there will published Addenda. However, Code Cases will continue to be published

quarterly between BPVC Editions, and re-published as a new Edition on a cycle concurrent with the rest of the BPVC. Interpretations will be posted on the ASME website in January of each year, and also in July of each year during which there is no BPVC Edition being published (i.e., 2014, 2016, etc.) With each July publication of the BPVC, Interpretations will be included.

Note: BPVC-2013 list prices below have been reduced to account for this new, two-year publishing cycle. All list prices are USD, and are subject to change without notice.

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Part C – Specifications for Welding Rods, Electrodes, and Filler Metals  
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Part D – Properties (Customary)  
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Part D – Properties (Metric)  
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General Requirements for Division 1 and Division 2

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Class 1 Components

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Subsection NC

Class 2 Components

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Subsection ND

Class 3 Components

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Subsection NE

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Subsection NF

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Subsection NG

Core Support Structures

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Subsection NH

Class 1 Components in Elevated

Temperature Service

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Appendices

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Division 2

Code for Concrete Containments

Order No. 600032 \$455.00

Division 3

Containment for Transportation and Storage of Spent Nuclear Fuel and High Level Radioactive Material and Waste

Order No. 600033 \$455.00

Division 5

High Temperature Reactors

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## V Nondestructive Examination

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## VII Recommended Guidelines for the Care of Power Boilers

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Division 1

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Division 3

Alternative Rules for Construction of High Pressure Vessels

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## X Fiber-Reinforced Plastic Pressure Vessels

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# Product Certification Packages

**Notes:**

Code books required for use with ASME Product Certification: For books other than the Boiler and Pressure Vessel Code (B31.1, PTC 25, NQA-1), the required edition as of January 1, 2014 is listed. The specific effective Edition will be referenced in the applicable Boiler and Pressure Vessel Code section. Later editions of these referenced books will be required if and when referenced by the applicable Boiler and Pressure Vessel Code section.

† Sections II and IX are not required for assemblers. Section II, Part C, and Section IX are not required for manufacturers if welding and brazing are not within the scope of their work.

†† Section II, Part C, and Section IX are not required for manufacturers if welding and brazing are not within the scope of their work.

**Certification Designator A**  
**Assembly of Power Boilers**  
**Code Books Required**  
 Section I - Power Boilers  
 Section II - Materials  
 Part C Specifications for Welding Rods, Electrodes and Filler Metals  
 Section V - Nondestructive Examination  
 Section IX - Welding & Brazing Qualifications  
 B31.1-2012 - Power Piping  
 Order No. BPVCB \$2,565.00

**Certification Designator E**  
**Electric Boilers**  
**Code Books Required**  
 Section I - Power Boilers  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part D Properties (Customary or Metric)  
 B31.1-2012 - Power Piping  
 Order No. BPVCE \$2,925.00

**Certification Designator H**  
**Cast Iron Section Heating Boilers**  
**Code Book Required**  
 Section IV - Heating Boilers  
 Order No. BPVCH2 \$475.00

**Certification Designator H**  
**Field Assembly of Boilers**  
**Code Books Required**  
 Section IV - Heating Boilers  
 Section IX - Welding & Brazing Qualifications  
 Order No. BPVCH \$1010.00

**Certification Designators**  
**H Heating Boilers Except Cast Iron**  
**HLW Lined Potable Water Heaters**  
**Code Books Required**  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes and Filler Metals  
 Section IV - Heating Boilers  
 Section IX - Welding & Brazing Qualifications  
 Order No. BPHLW \$3,140.00

**Certification Designator HV**  
**Heating Boiler Safety Valves**  
**Code Books Required ††**  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes, and Filler Metals  
 Section IV - Heating Boilers  
 Section IX - Welding & Brazing Qualifications  
 PTC 25-2008 - Pressure Relief Devices  
 Order No. BPVHV \$3,215.00

**Certification Designator M**  
**Miniature Boilers**  
**Code Books Required**  
 Section I - Power Boilers  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes, and Filler Metals  
 Part D Properties (Customary or Metric)  
 Section IX - Welding & Brazing Qualifications  
 B31.1-2012 - Power Piping  
 Order No. BPVCM \$4,170.00

**Certification Designators N, NA, NPT, NS**  
**N-Type Certificates of Authorization and Certificates of Accreditation**  
**Code Books Required**  
 Section II - Materials  
 Part D Properties (N and NA only) (Customary or Metric)  
 Section III - Rules for Construction of Nuclear Facility Components  
 Subsection NCA-General Requirements for Division 1 and Division 2 (Not Required for Section III - 3); Appendices  
 Division 5: High Temperature Reactors  
 Section V - Nondestructive Examination  
 Section IX - Welding & Brazing Qualifications  
 NQA-1-2008 - Quality Assurance Requirements for Nuclear Facility Applications  
 Order No. BPNPT  
**See page 33 for prices.**

Applicants should note that they may need one or more of the following Parts of Section II and Subsections of Section III, depending on the scope of their work, to appear on the certificate.  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes, and Filler Metals  
 Part D Properties (NPT only) (Customary or Metric)

Section III - Rules for Construction of Nuclear Facility Components  
 Subsection NB-Class 1 Components  
 Subsection NC-Class 2 Components  
 Subsection ND-Class 3 Components  
 Subsection NE-Class MC Components  
 Subsection NF-Supports  
 Subsection NG-Core Support Structures  
 Subsection NH-Class 1 Components in Elevated Temperature Service  
 Division 2: Code for Concrete Reactor Vessels and Containments  
 Division 3: Containment Systems for Storage and Transport Packaging of Spent Nuclear Fuel and High Level Radioactive Materials and Waste  
 Division 5: High Temperature Reactors  
**See page 33 for prices.**

### Certification Designator **NV** **Nuclear Safety and Pressure Relief Valves**

#### Code Books Required

Section II - Materials (Select applicable parts.)  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part D Properties (Customary or Metric)  
 Section III - Rules for Construction of Nuclear Facility Components  
 Subsection NCA-General Requirements for Division 1 and Division 2; Appendices  
 Section V - Nondestructive Examination  
 Section IX - Welding & Brazing Qualifications  
 PTC 25-2001- Pressure Relief Devices  
 NQA-1-2008 - Quality Assurance Requirements for Nuclear Facility Applications  
 Order No. BPNVA (with Section II, Part A)  
 Order No. BPNVB (with Section II, Part B)  
 Order No. BPNVD (with Section II, Part D)  
**See page 29 for prices.**

Applicants should note that they may need one or more of the following Subsections of Section III, depending on the scope of their work, to appear on the certificate.

Section III - Rules for Construction of Nuclear Facility Components

Subsection NB-Class 1 Components  
 Subsection NC-Class 2 Components  
 Subsection ND-Class 3 Components  
 Subsection NH-Class 1 Components in Elevated Temperature Service  
**See page 33 for prices.**

### Certification Designator **N3** **N-Type Certificates of Authorization and Certificates of Accreditation**

#### Code Books Required

Section II - Materials  
 Part D Properties (Customary or Metric)  
 Section III - Rules for Construction of Nuclear Facility Components  
 Division 3: Containments for Transportation and Storage of Spent Nuclear Fuel and High Level Radioactive Material and Waste  
 Section V - Nondestructive Examination  
 Section IX - Welding & Brazing Qualifications  
 NQA-1-2008 - Quality Assurance Requirements for Nuclear Facility Applications  
 Order No. PVCN3  
**See page 33 for prices.**

Applicants should note that they may need one or more of the following Parts of Section II and Subsections of Section III, depending on the scope of their work, to appear on the certificate.

Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes, and Filler Metals  
 Part D Properties (Customary or Metric)  
 Section III - Rules for Construction of Nuclear Facility Components  
 Subsection NB-Class 1 Components  
 Subsection NC-Class 2 Components  
 Subsection ND-Class 3 Components  
 Subsection NE-Class MC Components  
 Subsection NF-Supports  
 Subsection NG-Core Support Structures

Subsection NH-Class 1 Components in Elevated Temperature Service  
 Division 2: Code for Concrete Reactor Vessels and Containments  
 Subsection NCA - General Requirements for Division 1 and Division 2; Appendices  
**See page 33 for prices.**

### Certification Designators **PP Pressure Piping** **S Power Boilers**

#### Code Books Required

Section I - Power Boilers  
 Section II - Materials  
 Part A Ferrous Materials Specifications  
 Part B Nonferrous Materials Specifications  
 Part C Specifications for Welding Rods, Electrodes and Filler Metals  
 Part D Properties (Customary or Metric)  
 Section V - Nondestructive Examination  
 Section IX - Welding & Brazing Qualifications  
 B31.1-2012 - Power Piping  
 Order No. BPVCA \$4,695.00

### Certification Designator **RP** **Fiber-Reinforced Plastic Pressure Vessels**

#### Code Book Required

Section X - Fiber-Reinforced Plastic Pressure Vessels  
 Order No. BPVRP \$425.00

**Certification Designator T****Transport Tanks****Code Books Required**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section V - Nondestructive Examination	
Section IX - Welding & Brazing Qualifications	
Section XII - Rules for Construction and Continued Service of Transport Tanks	
Order No. BPVCT	\$4,380.00

**Certification Designator TD****Transport Tank Rupture Disk Devices****Code Books Required †**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section IX - Welding & Brazing Qualifications	
Section XII - Rules for Construction and Continued Service of Transport Tanks	
PTC 25-2008 - Pressure Relief Devices	
Order No. BPVCTTD	\$3,930.00

**Certification Designator TV****Transport Tank Safety Valves****Code Books Required †**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section IX - Welding & Brazing Qualifications	
Section XII - Rules for Construction and Continued Service of Transport Tanks	
PTC 25-2008 - Pressure Relief Devices	
Order No. BPVCTV	\$3,930.00

**Certification Designators****U Pressure Vessels (Div. 1)****UM Miniature Pressure Vessels****Code Books Required**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section V - Nondestructive Examination	
Section VIII - Pressure Vessels, Division 1	
Section IX - Welding & Brazing Qualifications	
Order No. BPVUM	\$4,620.00

**Certification Designator UD****Rupture Disk Devices****Code Books Required †**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section VIII - Pressure Vessels Division 1	
Section IX - Welding & Brazing Qualifications	
PTC 25-2008 - Pressure Relief Devices	
Order No. BPUD	\$4,170.00

**Certification Designator UV****Pressure Vessels Safety Valves****Code Books Required †**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section VIII - Pressure Vessels Division 1 or Division 2	
Section IX - Welding & Brazing Qualifications	

PTC 25-2008 - Pressure Relief Devices	
Order No. BPUV1 (includes Section VIII, Div.1)	\$4,170.00
Order No. BPUV2 (includes Section VIII, Div. 2)	\$4,170.00

**Certification Designator UV3****Pressure Vessels Safety Valves****Code Books Required †**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section VIII - Pressure Vessels Division 3	
Section IX - Welding & Brazing Qualifications	
PTC 25-2008 - Pressure Relief Devices	
Order No. BPUV3	\$3,975.00

**Certification Designator U2****Pressure Vessels (Div. 2)****Code Books Required**

Section II - Materials	
Part A	Ferrous Materials Specifications
Part B	Nonferrous Materials Specifications
Part C	Specifications for Welding Rods, Electrodes and Filler Metals
Part D	Properties (Customary or Metric)
Section V - Nondestructive Examination	
Section VIII - Pressure Vessels, Division 2-Alternative Rules	
Section IX - Welding & Brazing Qualifications	
Order No. BPVU1	\$4,620.00

**Continues >>>**

## Certification Designator **U3** Pressure Vessels (Div. 3)

### Code Books Required

#### Section II - Materials

Part A Ferrous Materials Specifications

Part B Nonferrous Materials Specifications

Part C Specifications for Welding Rods, Electrodes and Filler Metals

Part D Properties (Customary or Metric)

#### Section V - Nondestructive Examination

Section VIII - Pressure Vessels, Division 3 - Alternative Rules for Construction of High Pressure Vessels

Section IX - Welding & Brazing Qualifications

Order No. BPVU3 \$4,540.00

## Certification Designator **V** Boiler Safety Valves

### Code Books Required †

#### Section I - Power Boilers

#### Section II - Materials

Part A Ferrous Materials Specifications

Part B Nonferrous Materials Specifications

Part C Specifications for Welding Rods, Electrodes, and Filler Metals

Part D Properties (Customary or Metric)

Section IX - Welding & Brazing Qualifications

PTC 25-2008 - Pressure Relief Devices

Order No. BPVCV \$3,920.00

## Quality System Certificates – Material Manufacturers, Materials Suppliers

### Code Books Required

Section II - Materials (Select applicable parts)

Part A Ferrous Materials Specifications

Part B Nonferrous Materials Specifications

Part C Specifications for Welding Rods, Electrodes, and Filler Metals Specifications

Part D Properties (Customary or Metric)

Section III - Rules for Construction of Nuclear Facility Components

Subsection NCA-General Requirements for Division 1 and Division 2; Appendices

Order No. BPVMS

**See page 33 for prices.**

Applicants should note that they may need one or more of the following subsections of Section III, depending on the scope of their work, to appear on the certificate. In addition, these Subsections contain material requirements in Article 2000 which reference Section V and Section IX.

Subsection NB-Class 1 Components

Subsection NC-Class 2 Components

Subsection ND-Class 3 Components

Subsection NE-Class MC Components

Subsection NF-Supports

Subsection NG-Core Support Structures

Subsection NH-Class 1 Components in Elevated Temperature Service

Division 5: High Temperature Reactors

Section V - Nondestructive Examination

Section IX - Welding & Brazing Qualifications

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***See pages 48-57***

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- **QRO Provisional Certification** is the first step toward achieving full operator certification. This level is equally applicable to shift supervisors and chief facility

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- **ASME NDE and QC Inspection (ANDE) Certification**

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- **NQA-1 Auditor Certification**

Certification of individuals to perform internal audits to NQA-1 requirements

operators. In order to attain this certification, the applicant must meet the eligibility requirements and pass a written multiple-choice examination (Provisional Examination). Provisional certification is not facility specific.

- **QRO Operator Certification** (full certification) applies to a specific facility. The applicant is required to be the holder of a valid Provisional Certificate and document six months of satisfactory employment in the capacity of shift supervisor or chief facility operator at the specific facility, and pass an oral examination.

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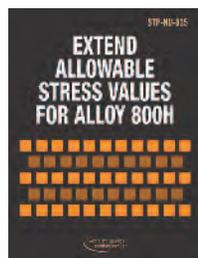
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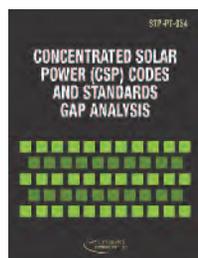


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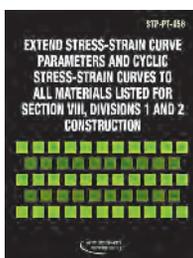


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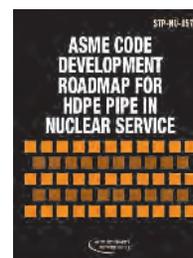
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API 579-1/ASME FFS-1 Fitness-for-Service	PD395	LC	3 days	2.3 CEUs
ASME Boiler & Pressure Vessel Certification Process	ZABC9	Online ABC	3 hrs	3 PDHs
B31.3 Process Piping Design, Materials, Fabrication, Examination & Testing Combo Course <b>TOP SELLER</b> ☆ <b>ASME Code Course</b>	PD581	LC	5 days	3.8 CEUs
BPV Code, Section I, Power Boilers: Types, Design, Fabrication, Inspection and Repair <i>(ASME Code Course)</i>	PD665	LC	5 days	3.8 CEUs
BPV Code, Section VIII Div 1 Combo Course <b>TOP SELLER</b> ☆ <b>ASME Code Course</b>	PD443	LC	5 days	3.8 CEUs
BPV Code, Section VIII, Division 1: Design & Fabrication of Pressure Vessels <b>TOP SELLER</b> ☆ <b>ASME Code Course</b>	PD442	LC	3 days	2.3 CEUs
BPV Code, Section VIII, Division 1: Design and Fabrication of Pressure Vessels <b>TOP SELLER</b> ☆ <b>ASME Code Course</b>	EL501	Online IS	22.5 hrs	2.3 CEUs
BPV Code, Section VIII, Division 2: Alternative Rules for Design & Fabrication of Pressure Vessels ☆ <b>ASME Code Course</b>	EL502	Online IS	22.5 hrs	2.3 CEUs
BPV Code, Section VIII, Division 2: Pressure Vessels <b>TOP SELLER</b> ☆ <b>ASME Code Course</b>	PD448	LC	4 days	3 CEUs
BPV Code, Section XI, Division 1: Inservice Inspection 10-Year Program and 10-Year Program Updates for Nuclear Power Plant Components ☆ <b>ASME Code Course</b>	PD672	LC	4 days	3 CEUs
BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components ☆ <b>ASME Code Course</b>	PD192	LC	5 days	3.8 CEUs
BPV Code: Plant Equipment Requirements ☆ <b>ASME Code Course</b>	PD622	LC	4 days	3 CEUs
Essentials - PTC-25 Pressure Relief Devices <b>NEW!</b>	ZABC36	Online ABC	2 hrs	2 PDHs
Essentials: BPV Code, Section IV: Rules for Construction of Heating Boilers <b>NEW!</b> ☆ <b>ASME Code Course</b>	ZABC35	Online ABC	2 hrs	2 PDHs
Essentials: BPV Code, Section XII: Rules for the Construction and Continued Service for Transport Tanks ☆ <b>ASME Code Course</b>	ZABC10	Online ABC	2 hrs	2 PDHs
Essentials: BPV Code, Section VIII, Division 3 ☆ <b>ASME Code Course</b>	ZABC11	Online ABC	2 hrs	2 PDHs
Failure Prevention, Repair & Life Extension of Piping, Vessels and Tanks	PD077	LC	3 days	2.3 CEUs
Flow Induced Vibration with Applications to Failure Analysis	PD146	LC	3 days	2.3 CEUs
How to Predict Thermal-Hydraulic Loads on Pressure Vessels & Piping	PD382	LC	2 days	1.5 CEUs
Inspection, Repairs and Alterations of Pressure Equipment	EL503	Online IS	22.5 hrs	2.3 CEUs
Inspection, Repairs and Alterations of Pressure Equipment	PD441	LC	2 days	1.5 CEUs
Introduction to ASME Standards & Certification <b>FREE for a Limited Time</b>	ZABC19	Online ABC	2 hrs	2 PDHs
Non-Destructive Examination-Applying ASME Code Requirements (BPV Code, Section V) ☆ <b>ASME Code Course</b>	PD389	LC	3 days	2.3 CEUs
Operation, Maintenance and Repair of Plant Piping Systems	PD398	LC	3 days	2.3 CEUs
Power Plant Training Simulation for Managers & Engineers	PD700	LC	3 days	2.3 CEUs
Pressure Relief Devices: Design, Sizing, Construction, Inspection & Maintenance	PD583	LC	2 days	1.5 CEUs
Seismic Design and Retrofit of Equipment and Piping	PD394	LC	4 days	3 CEUs
Turbo Machinery Dynamics: Design and Operation	PD432	LC	5 days	3.8 CEUs

Bolting	Course Code	Course Type*	Length	Credits
Bolted Joint Assembly Principles Per PCC-1-2010	PD577	LC	2 days	1.5 CEUs
Bolted Joints and Gasket Behavior	PD539	LC	2 days	1.5 CEUs
Bolting Combo Course	PD601	LC	5 days	3.8 CEUs
Design of Bolted Flange Joints	PD386	LC	1 day	0.8 CEUs
Fundamentals of Fastening Systems	PD313	LC	2 days	1.5 CEUs
The Bolted Joint <b>TOP SELLER</b>	EL512	Online IS	22.5 hrs	2.3 CEUs

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Design and Materials	Course Code	Course Type*	Length	Credits
Advanced Finite Element Analysis <b>TOP SELLER</b>	EL508	Online IS	22.5 hrs	2.3 CEUs
Advanced Geometric Dimensioning and Tolerancing (GD&T) <b>TOP SELLER</b>	EL506	Online IS	22.5 hrs	2.3 CEUs
Basic Geometric Dimensioning and Tolerancing <b>TOP SELLER</b>	EL505	Online IS	22.5 hrs	2.3 CEUs
Design for Product Success	EL514	Online IS	22.5 hrs	2.3 CEUs
Design, Analysis, Fabrication of Composite Structure, Energy and Machine Applications	PD567	LC	2 days	1.5 CEUs
Developing Products	EL530	Online IS	22.5 hrs	2.3 CEUs
FE Exam Review Course	EL537	Online SS		
Fracture Mechanics Approach to Life Predictions	PD268	LC	3 days	2.3 CEUs
Introduction to Computational Fluid Dynamics	EL513	Online IS	22.5 hrs	2.3 CEUs
Introduction to Finite Element Analysis <b>TOP SELLER</b>	EL507	Online IS	22.5 hrs	2.3 CEUs
Lean Manufacturing	EL525	Online IS	22.5 hrs	2.3 CEUs
Probabilistic Structural Analysis, Design and Reliability-Risk Assessment <b>NEW!</b>	PD683	LC	3 days	2.3 CEUs
Shock and Vibration Analysis	PD231	LC	3 days	2.3 CEUs
The Taguchi Design of Experiments for Robust Product and Process Design	PD571	LC	3 days	2.3 CEUs
Tools & Methods of Finite Element Analysis	PD456	LC	2 days	1.5 CEUs
TRIZ The Theory of Inventive Problem Solving	PD513	LC	3 days	2.3 CEUs
Turbo Machinery Dynamics: Design & Analysis	PD432	LC	5 days	3.8 CEUs

Elevators and Escalators	Course Code	Course Type*	Length	Credits
A17.1 Safety Code for Elevators and Escalators ☆ <b>ASME Code Course</b>	PD010	LC	4 days	3 CEUs
Elevator and Escalator Combo Course ☆ <b>ASME Code Course</b>	PD602	LC	5 days	3.8 CEUs
Essentials - Rules for Construction of Single-Failure-Proof Cranes and Cranes in ASME NOG-1 and ASME NUM-1 <b>NEW!</b>	ZABC38	Online ABC	2 hrs	2 PDHs
How to Perform Elevator Inspections Using ASME A17.2	PD102	LC	3 days	2.3 CEUs
Introduction to Elevators and Escalators	PD100	LC	2 days	1.5 CEUs

Fluids and Heat Transfer	Course Code	Course Type*	Length	Credits
Centrifugal Compressor Performance Analysis	PD584	LC	3 days	2.3 CEUs
Centrifugal Pump Design & Applications	PD349	LC	3 days	2.3 CEUs
Design and Selection of Heat Exchangers <b>NEW!</b>	PD673	LC	2 days	1.5 CEUs
Flow Assurance***	IPTI140***	LC	1 day	6.5 PDHs
Heating, Ventilating and Air-Conditioning Systems: Sizing & Design	PD027	LC	3 days	2.3 CEUs
Heating, Ventilation and Air-Conditioning (HVAC)	EL538	Online SS	15 hrs	15 PDHs
HVAC Systems and Chiller Performance Combo Course	PD657	LC	4 days	3 CEUs
Hydraulic Design of Liquid or Water Piping System	EL539	Online SS	23 hrs	23 PDHs
Introduction to Computational Fluid Dynamics	EL513	Online IS	22.5 hrs	2.3 CEUs
Introduction to the Selection of Pumps <b>NEW!</b>	ZABC42	Online ABC	2 hrs	2 PDHs
Pump and Valve Selection for Optimum System Performance	PD171	LC	4 days	3 CEUs
Two Phase Flow and Heat Transfer <b>TOP SELLER</b>	EL510	Online IS	22.5 hrs	2.3 CEUs
Two-Phase Flow and Heat Transfer	PD624	LC	2 days	1.5 CEUs
Understanding Chiller Performance, Operation and Economics	PD387	LC	1 day	0.8 CEUs

Gas Turbines	Course Code	Course Type*	Length	Credits
Basic Gas Turbine Engine Technology	EL540	Online SS	10 hrs	10 PDHs
Design, Operation and Maintenance of Gas Turbines***	IPTI240***	LC	2 days	13 PDHs
Essentials - PTC 6 – Testing Steam Turbines <b>NEW!</b>	ZABC37	Online ABC	2 hrs	2 PDHs
The Gas Turbine: Principles and Applications	PD115	LC	2 days	1.5 CEUs

General Interest Courses	Course Code	Course Type*	Length	Credits
ASME Boiler & Pressure Vessel Certification Process	ZABC9	Online ABC	3 hrs	3 PDHs
Changing Organizational Culture	ZABC8	Online ABC	1.5 hrs	1.5 PDHs
Core Engineering Management	PD620	LC	4 days	3 CEUs
Energy Choices: The Facts, Challenges and Limitations of Energy Sources	ZABC1	Online ABC	2 hrs	2 PDHs
Ethics for Engineers: Doing the Right Thing When No One is Looking	ZABC3	Online ABC	3 hrs	3 PDHs
Execution: How to Get Results	ZABC7	Online ABC	1.5 hrs	1.5 PDHs
Financial Resource Management for Engineers <b>NEW!</b>	ZABC40	Online ABC	3 hrs	3 PDHs
Introduction to ASME Standard & Certification <b>FREE for a Limited Time</b>	ZABC19	Online ABC	2 hrs	2 PDHs
Marketing, Sales and Communications for Engineers <b>NEW!</b>	ZABC41	Online ABC	2 hrs	2 PDHs
Technical Writing for Engineers: Giving Readers What They Need	ZABC2	Online ABC	4 hrs	4 PDHs
Total Quality Management	ZABC6	Online ABC	3 hrs	3 PDHs

Geometric Dimensioning and Tolerancing	Course Code	Course Type*	Length	Credits
Advanced Geometric Dimensioning and Tolerancing (GD&T) <b>TOP SELLER</b>	EL506	Online IS	22.5 hrs	2.3 CEUs
Basic Geometric Dimensioning and Tolerancing <b>TOP SELLER</b>	EL505	Online IS	22.5 hrs	2.3 CEUs
Dimensioning and Tolerancing Principles for Gages and Fixtures	PD515	LC	3 days	2.3 CEUs
Drawing Interpretation <b>TOP SELLER</b>	EL504	Online IS	22.5 hrs	2.3 CEUs
Essentials - Y14.8-2009 Castings, Forgings and Molded Parts <b>NEW!</b>	ZABC32	Online ABC	2 hrs	2 PDHs
GD&T Combo Course	PD603	LC	4 days	3 CEUs
Geometric Dimensioning and Tolerancing (GD&T) Y14.5 Trainer Professional Edition: One-User CD-ROM	ZGDT4	CD		
Geometric Tolerancing Advanced Applications with Stacks and Analysis	PD561	LC	2 days	1.5 CEUs
Geometric Tolerancing Fundamentals 1	PD570	LC	2 days	1.5 CEUs
Mechanical Tolerancing for Six Sigma	PD449	LC	2 days	1.5 CEUs

Legal Issues for Engineers	Course Code	Course Type*	Length	Credits
Ethics for Engineers: Doing the Right Thing When No One is Looking	ZABC3	Online ABC	3 hrs	3 PDHs
Engineering Ethics in Action***	IPT1400***	LC	3 Hrs	3 PDHs
Understanding the Foreign Corrupt Practices Act	PD680	LC	2 days	1.5 CEUs
International Business Ethics (and Foreign Corrupt Practices Act)	PD674	LC	3 days	2.3 CEUs
International Business Ethics and Foreign Corrupt Practices Act Combo Course	PD681	LC	5 days	3.8 CEUs
Professional Responsibility for Engineers	PD532	LC	2 days	1.5 CEUs

Managing People	Course Code	Course Type*	Length	Credits
Changing Organizational Culture	ZABC8	Online ABC	1.5 hrs	1.5 PDHs
Comprehensive Negotiating Strategies: Engineers and Technical Professionals	PD575	LC	2 days	1.5 CEUs
Core Engineering Management	PD620	LC	4 days	3 CEUs
Developing Conflict Resolution Best Practices	PD591	LC	2 days	1.5 CEUs
Ethics for Engineers: Doing the Right Thing When No One is Looking	ZABC3	Online ABC	3 hrs	3 PDHs
Execution: How to Get Results	ZABC7	Online ABC	1.5 hrs	1.5 PDHs
Leadership and Organizational Management	EL532	Online IS	22.5 hrs	2.3 CEUs
Leadership and Organizational Management	PD531	LC	2 days	1.5 CEUs
Research and Development Management	PD506	LC	3 days	2.3 CEUs
Strategic Thinking <b>NEW!</b>	PD676	LC	1 day	0.8 CEUs
The New Engineering Manager: Moving from Technical Professional to Manager	PD475	LC	2 days	1.5 CEUs
The New Engineering Manager: Moving from Technical Professional to Manager and Strategic Thinking Combo Course <b>NEW!</b>	PD685	LC	3 days	2.3 CEUs

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Managing Projects	Course Code	Course Type*	Length	Credits
Core Engineering Management	PD620	LC	4 days	3 CEUs
Developing Products	EL530	Online IS	22.5 hrs	2.3 CEUs
Execution: How to Get Results	ZABC7	Online ABC	1.5 hrs	1.5 PDHs
Financial Resource Management	EL533	Online IS	22.5 hrs	2.3 CEUs
Financial Resource Management for Engineers <b>NEW!</b>	ZABC40	Online ABC	3 hrs	3 PDHs
Marketing, Sales & Communications	EL531	Online IS	22.5 hrs	2.3 CEUs
Marketing, Sales and Communications for Engineers <b>NEW!</b>	ZABC41	Online ABC	1.5 hrs	1.5 PDHs
Preparing for the Project Management Professional Certification Exam	PD496	LC	2 days	1.5 CEUs
Project and Process Management	EL536	Online IS	22.5 hrs	2.3 CEUs
Project Management Combo Course	PD629	LC	5 days	3.8 CEUs
Project Management for Engineers	EL511	Online IS	22.5 hrs	2.3 CEUs
Project Management for Engineers and Technical Professionals	PD467	LC	3 days	2.3 CEUs
Strategic Planning	EL534	Online IS	22.5 hrs	2.3 CEUs
Technical Writing for Engineers: Giving Readers What They Need	ZABC2	Online ABC	4 hrs	4 PDHs
Total Quality Management	ZABC6	Online ABC	3 hrs	3 PDHs
TRIZ The Theory of Inventive Problem Solving	PD513	LC	3 days	2.3 CEUs

Mechanical Engineering Essentials	Course Code	Course Type*	Length	Credits
Essentials - A17.6 Standard <b>NEW!</b>	ZABC28	Online ABC	2 hrs	2 PDHs
Essentials - B30 Safety Standard <b>NEW!</b>	ZABC27	Online ABC	2 hrs	2 PDHs
Essentials - B31.1 Power Piping	ZABC14	Online ABC	2 hrs	2 PDHs
Essentials - B31.3 Process Piping	ZABC15	Online ABC	2 hrs	2 PDHs
Essentials - B31.8 Gas Transmission and Distribution Piping Systems	ZABC12	Online ABC	2 hrs	2 PDHs
Essentials - Bioprocessing Equipment (BPE)	ZABC13	Online ABC	2 hrs	2 PDHs
Essentials - BPV Code, Section III, Division 1: Rules for the Construction of Nuclear Facility Components	ZABC20	Online ABC	2 hrs	2 PDHs
Essentials - BPV Code, Section IV: Rules for Construction of Heating Boilers	ZABC35	Online ABC	3 hrs	3 PDHs
Essentials - BPV Code, Section IX: Welding & Brazing Qualifications	ZABC18	Online ABC	2 hrs	2 PDHs
Essentials - BPV Code, Section VIII, Division 3	ZABC11	Online ABC	2 hrs	2 PDHs
Essentials - BPV Code, Section XII: Rules for the Construction & Continued Service of Transport Tanks <b>NEW!</b>	ZABC10	Online ABC	2 hrs	2 PDHs
Essentials - BPV Section V Nondestructive Examination	ZABC17	Online ABC	2 hrs	2 PDHs
Essentials - NQA-1 Part 1 – 18 QA Requirements	ZABC5	Online ABC	4 hrs	4 PDHs
Essentials - PTC 6 -- Testing Steam Turbines <b>NEW!</b>	ZABC37	Online ABC	2 hrs	2 PDHs
Essentials - PTC-19.1 Test Uncertainty <b>NEW!</b>	ZABC31	Online ABC	2 hrs	2 PDHs
Essentials - PTC-25 Pressure Relief Devices <b>NEW!</b>	ZABC36	Online ABC	2 hrs	2 PDHs
Essentials - PVHO-1 Standard	ZABC16	Online ABC	2 hrs	2 PDHs
Essentials - Rules for Construction of Single-Failure-Proof Cranes and Cranes in ASME NOG-1 and ASME NUM-1 <b>NEW!</b>	ZABC38	Online ABC	2 hrs	2 PDHs
Essentials - Y14.8-2009 Castings, Forgings and Molded Parts	ZABC32	Online ABC	2 hrs	2 PDHs

Nano Educational Series	Course Code	Course Type*	Length	Credits
Fundamentals of Nanomanufacturing and Applications	ZABC25	Online ABC	5 hrs	5 PDHs
Fundamentals of Nanometrology	ZABC24	Online ABC	5 hrs	5 PDHs
Nanocoatings for Enhanced Thermal Engineering	ZABC21	Online ABC	5 hrs	5 PDHs
Nanocomposites Technology & Its Impact on Engineering	ZABC22	Online ABC	5 hrs	5 PDHs
Nanomaterials in Metals	ZABC26	Online ABC	4 hrs	4 PDHs
Nanosystems for Applications in Water, Energy, Chemical and Biological Separations	ZABC23	Online ABC	5 hrs	5 PDHs

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Nuclear	Course Code	Course Type*	Length	Credits
Advanced Design and Construction of Nuclear Facility Components per BPV Code, Section III ☆ ASME Code Course	PD644	LC	4 days	3 CEUs
ASME BPV Code, Section III, Division 1: Rules for Construction of Nuclear Facility Components <b>TOP SELLER</b> ☆ ASME Code Course	PD184	LC	4 days	3 CEUs
ASME BPV Code, Section III, Division 1: Rules for Construction of Nuclear Facility Components** <b>TOP SELLER</b> ☆ ASME Code Course	PD684**	LC	5 days	3.8 CEUs
ASME NQA-1 Lead Auditor Training <b>NEW!</b>	PD675	LC	4 days	3 CEUs
ASME NQA-1-2008/1A-2009 Quality Assurance Requirements for Nuclear Facility Applications**	PD635**	LC	3 days	2.3 CEUs
BPV Code, Section III, Division 1: Class 1 Piping Design ☆ ASME Code Course	PD599	LC	2 days	1.5 CEUs
BPV Code, Section III, Division 1: Class 1, 2 & 3 Piping Design Combo Course ☆ ASME Code Course	PD615	LC	3 days	2.3 CEUs
BPV Code, Section III, Division 1: Class 2 & 3 Piping Design ☆ ASME Code Course	PD600	LC	1 day	0.8 CEUs
BPV Code, Section III: Advanced Design and Construction of Nuclear Facility Components ☆ ASME Code Course	EL524	Online IS	22.5 hrs	2.3 CEUs
BPV Code, Section IX: Welding & Brazing Qualifications ☆ ASME Code Course	PD190	LC	3 days	2.3 CEUs
BPV Code, Section IX: Welding & Brazing Qualifications** <b>NEW!</b> ☆ ASME Code Course	PD645**	LC	3 days	2.3 CEUs
BPV Code, Section IX: Welding and Brazing Qualifications ☆ ASME Code Course	EL516	Online IS	22.5 hrs	2.3 CEUs
BPV Code, Section XI, Division 1: Inservice Inspection 10-Year Program and 10-Year Program Updates for Nuclear Power Plant Components ☆ ASME Code Course	PD672	LC	4 days	3 CEUs
BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components ☆ ASME Code Course	PD192	LC	5 days	3.8 CEUs
Centrifugal Compressor Performance Analysis	PD584	LC	3 days	2.3 CEUs
Comparison of Global Assurance and Management Standards Used in Nuclear Applications ☆ ASME Code Course	EL526	Online IS	22.5 hrs	2.3 CEUs
Comparison of Global Quality Assurance & Management System Standards Used for Nuclear Applications ☆ ASME Code Course	PD634	LC	2 days	1.5 CEUs
Design in Codes, Standards & Regulations for Nuclear Power Plant Construction ☆ ASME Code Course	PD632	LC	4 days	3 CEUs
Design of Buried High Density Polyethylene (HDPE)	EL544	Online SS	23 hrs	23 PDHs
Design of Buried High Density Polyethylene (HDPE) Piping Systems	PD617	LC	2 days	1.5 CEUs
Developing a New Inservice Testing Program	PD598	LC	5 days	3.8 CEUs
Elevator Maintenance Evaluation	PD107	LC	2 days	1.5 CEUs
Essentials - BPV Code, Section III, Division 1: Rules for the Construction of Nuclear Facility Components ☆ ASME Code Course	ZABC20	Online ABC	2 hrs	2 PDHs
Essentials - NQA-1 Part 1 – 18 QA Requirements	ZABC5	Online ABC	4 hrs	4 PDHs
FRP Piping Fabrication and Installation Processes	EL522	Online IS	22.5 hrs	2.3 CEUs
FRP Piping Fabrication and Installation Processes	PD593	LC	1 day	0.8 CEUs
Fundamentals of BPV Code, Section III <b>TOP SELLER</b> ☆ ASME Code Course	EL509	Online IS	22.5 hrs	2.3 CEUs
How to Get an 'N' Stamp - Conformity Assessment, Requirements and Procedures	ZABC4	ABC	3 hrs	3 PDHs
Inservice Testing of Pumps	EL523	Online IS	22.5 hrs	2.3 CEUs
Inservice Testing of Pumps	PD595	LC	2 days	1.5 CEUs
Inservice Testing of Valves	EL521	Online IS	22.5 hrs	2.3 CEUs
Inservice Testing of Valves	PD596	LC	3 days	2.3 CEUs
Manufacturing, Fabrication & Examination Responsibilities in Codes, Standards and Regulations for Nuclear Power Plant Construction ☆ ASME Code Course	PD631	LC	3 days	2.3 CEUs
NQA-1 Practical Application <b>NEW!</b>	ZABC29	Online ABC	4 hrs	4 PDHs
NQA-1 Quality Assurance Requirements for Nuclear Facilities	EL520	Online IS	22.5 hrs	2.3 CEUs
NQA-1 Requirements for Computer Software Used in Nuclear Facilities	PD606	LC	2 days	1.5 CEUs
Overview of Codes & Standards for Nuclear Power Plant Construction ☆ ASME Code Course	PD633	LC	3 days	2.3 CEUs
Overview of Probabilistic Risk Assessment (PRA)	EL541	Online SS	2 hrs	2 PDHs
Quality Assurance (QA) Considerations for New Nuclear Facility Construction	PD523	LC	3 days	2.3 CEUs
Risk-Informed Inservice Testing	EL527	Online IS	22.5 hrs	2.3 CEUs
Risk-Informed Inservice Testing	PD597	LC	3 days	2.3 CEUs

Ocean, Offshore and Arctic Engineering	Course Code	Course Type*	Length	Credits
Design and Analysis of Floating Structures***	IPTI360***	LC	1 day	6.5 PDHs
Ice Engineering***	IPTI300***	LC	1 day	6.5 PDHs
Marine Renewable Energy***	IPTI330***	LC	1 day	6.5 PDHs
Offshore Arctic Pipeline Engineering***	IPTI360***	LC	1 day	6.5 PDHs
Structural Reliability of Offshore Structures***	IPTI350***	LC	1 day	6.5 PDHs
Subsea Equipment***	IPTI340***	LC	1 day	6.5 PDHs
Ultimate Strength of Ships and Offshore Structures***	IPTI335***	LC	1 day	6.5 PDHs
Vortex Induced Vibrations***	IPTI310***	LC	1 day	6.5 PDHs
Wave Energy***	IPTI320***	LC	1 day	6.5 PDHs

Petroleum	Course Code	Course Type*	Length	Credits
B31.1 Power Piping Design and Fabrication <b>TOP SELLER</b> ☆ ASME Code Course	PD013	LC	5 days	3.8 CEUs
B31.3 Process Piping Design <b>TOP SELLER</b> ☆ ASME Code Course	PD014	LC	4 days	3 CEUs
Essentials - B31.1 Power Piping ☆ ASME Code Course	ZABC14	Online ABC	2 hrs	2 PDHs
Essentials - B31.3 Process Piping ☆ ASME Code Course	ZABC15	Online ABC	2 hrs	2 PDHs
IM & Reliability of Subsea Systems: Design to Decommissioning***	IPTI120***	LC	2 days	13 PDHs

Piping and Pipelines	Course Code	Course Type*	Length	Credits
ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids ☆ ASME Code Course	PD391	LC	2 days	1.5 CEUs
B31 Piping Fabrication and Examination ☆ ASME Code Course	PD445	LC	2 days	1.5 CEUs
B31.1 Power Piping Design and Fabrication <b>TOP SELLER</b> ☆ ASME Code Course	PD013	LC	5 days	3.8 CEUs
B31.3 Process Piping Code** ☆ ASME Code Course	PD643**	LC	4 days	3 CEUs
B31.3 Process Piping Design <b>TOP SELLER</b> ☆ ASME Code Course	PD014	LC	4 days	3 CEUs
B31.3 Process Piping Design, Materials, Fabrication, Examination & Testing Combo Course <b>TOP SELLER</b> ☆ ASME Code Course	PD581	LC	5 days	3.8 CEUs
B31.3 Process Piping Materials Fabrication, Examination & Testing <b>TOP SELLER</b> ☆ ASME Code Course	PD457	LC	1 day	0.8 CEUs
B31.8 Gas Transmission & Distribution Piping Systems ☆ ASME Code Course	PD370	LC	2.5 days	1.9 CEUs
BPV Code, Section III, Division 1: Class 1 Piping Design ☆ ASME Code Course	EL542	Online SS	23 hrs	23 PDHs
BPV Code, Section III, Division 1: Class 2 & 3 Piping Design ☆ ASME Code Course	EL543	Online SS	23 hrs	23 PDHs
Defect Assessment***	IPTI280***	LC	2 days	13 PDHs
Design and Selection of Compressors***	IPTI250***	LC	3 days	20 PDHs
Design of Buried High Density Polyethylene (HDPE)	EL544	Online SS	23 hrs	23 PDHs
Design of Buried High Density Polyethylene (HDPE) Piping Systems	PD617	LC	2 days	1.5 CEUs
Design, Operation and Maintenance of Gas Turbines***	IPTI240***	LC	2 days	13 PDHs
Detail Engineering of Piping Systems	PD410	LC	3 days	2.3 CEUs
Essentials - B31.1 Power Piping ☆ ASME Code Course	ZABC14	Online ABC	2 hrs	2 PDHs
Essentials - B31.3 Process Piping ☆ ASME Code Course	ZABC15	Online ABC	2 hrs	2 PDHs
Essentials - B31.8 Gas Transmission and Distribution Piping Systems	ZABC12	Online ABC	2 hrs	2 PDHs
FRP Piping Fabrication and Installation Processes	EL522	Online IS	22.5 hrs	2.3 CEUs
FRP Piping Fabrication and Installation Processes	PD593	LC	1 day	0.8 CEUs
Fundamentals of Deepwater Project Development***	IPTI100***	LC	1 day	6.5 PDHs
Fundamentals of Deepwater Riser Engineering	IPTI110***	LC	1 day	6.5 PDHs
Grade 91 and Other Creep Strength Enhanced Ferritic Steels	PD621	LC	3 days	2.3 CEUs
Hydraulic Design of Liquid or Water Piping Systems	EL539	Online SS	23 hrs	23 PDHs
Layout of Piping Systems and Process Equipment and the Use of 3D Modeling <b>NEW!</b>	PD686	LC	5 days	3.8 CEUs
Operation, Maintenance And Repair of Plant Piping Systems	PD398	LC	3 days	2.3 CEUs
Pipeline Engineering: Offshore Design and Construction*** <b>NEW!</b>	IPTI265***	LC	2 days	13 PDHs

Piping and Pipelines	Course Code	Course Type*	Length	Credits
Pipeline Engineering: In-Line Inspection***	ITI220***	LC	1 day	6.5 PDHs
Pipeline Engineering: Integrity Management***	IPTI210***	LC	1 day	6.5 PDHs
Pipeline Engineering: Onshore Design and Construction***	IPTI200***	LC	3 days	20 PDHs
Reliability Based Design and Assessments for Natural Gas Pipelines***	IPTI260***	LC	1 day	6.5 PDHs
Reliability Improvement of Rotating Equipment***	IPTI290***	LC	1 day	6.5 PDHs
Stress Corrosion Cracking***	IPTI270***	LC	1 day	6.5 PDHs
Subsea Pipeline Design Overview***	IPTI230***	LC	1 day	6.5 PDHs

Risk and Reliability	Course Code	Course Type*	Length	Credits
Developing Conflict Resolution Best Practices	PD591	LC	2 days	1.5 CEUs
Risk and Reliability Strategies for Effective Maintenance Management	PD619	LC	3 days	2.3 CEUs
Root Cause Analysis Fundamentals	PD618	LC	3 days	2.3 CEUs

Welding	Course Code	Course Type*	Length	Credits
Principles of Welding	EL515	Online IS	22.5 hrs	2.3 CEUs
BPV Code, Section IX: Welding and Brazing Qualifications ☆ ASME Code Course	EL516	Online IS	22.5 hrs	2.3 CEUs
Essentials - BPV Code, Section IX: Welding & Brazing Qualifications ASME Code Course	ZABC18	Online ABC	2 hrs	2 PDHs
BPV Code, Section IX: Welding & Brazing Qualifications ☆ ASME Code Course	PD190	LC	3 days	2.3 CEUs
Practical Welding Technology	PD359	LC	3 days	2.3 CEUs
BPV Code, Section IX: Welding & Brazing Qualifications** ☆ ASME Code Course	PD645**	LC	3 days	2.3 CEUs

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Análisis de Fallas Mecánicas en Equipos Mineros	ZI648	Online IS	22.5 hrs	2.3 CEUs
Código ASME B31.1 Tuberías de Vapor y Sistemas de Potencia	ZI520	Online IS	22.5 hrs	2.3 CEUs
Código ASME B31.3 Tuberías de Proceso de Refinerías y Plantas Químicas	ZI570	Online IS	22.5 hrs	2.3 CEUs
Código ASME B31.4 Tuberías de Transporte de Hidrocarburos Líquidos y otros Líquidos	ZI590	Online IS	22.5 hrs	2.3 CEUs
Código ASME B31.8 Tuberías de Transporte y Distribución de Gas	ZI580	Online IS	22.5 hrs	2.3 CEUs
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Curso de Preparación para Examen de Certificación en Dimensiones y Tolerancias Geométricas	ZI638	Online IS	22.5 hrs	2.3 CEUs
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Inspección Basada en Riesgo II	ZI621	Online IS	22.5 hrs	2.3 CEUs
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Seguridad Operativa en el Manejo de Equipos de Izajes	ZI641	Online IS	22.5 hrs	2.3 CEUs
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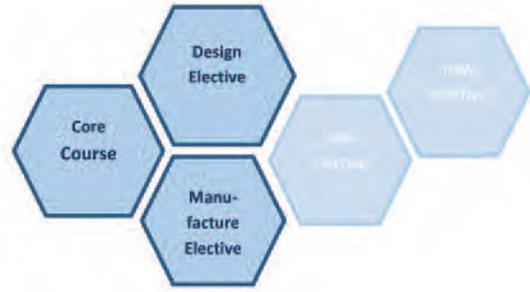
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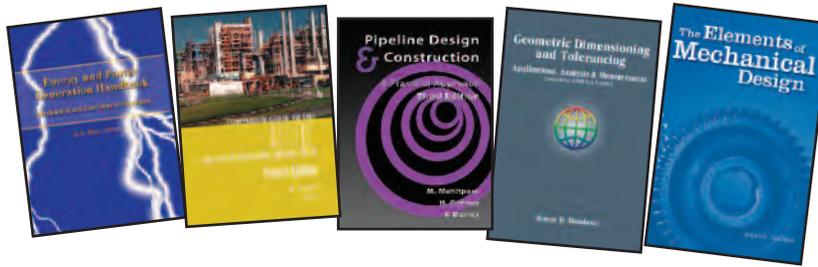
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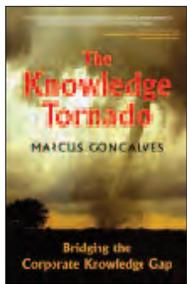
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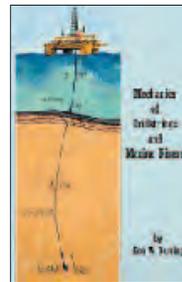
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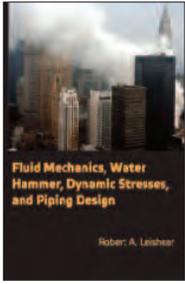
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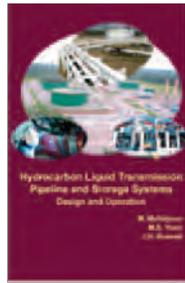


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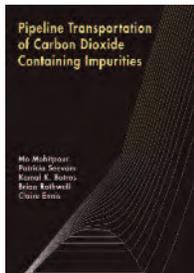
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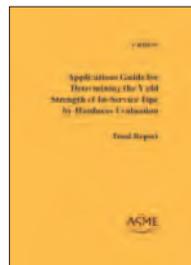
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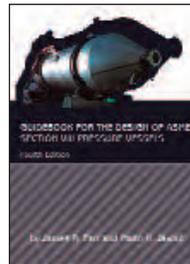
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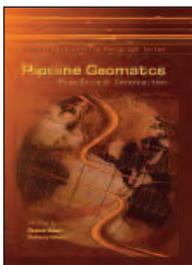
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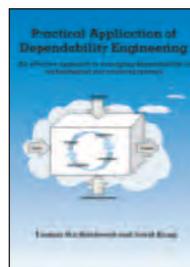
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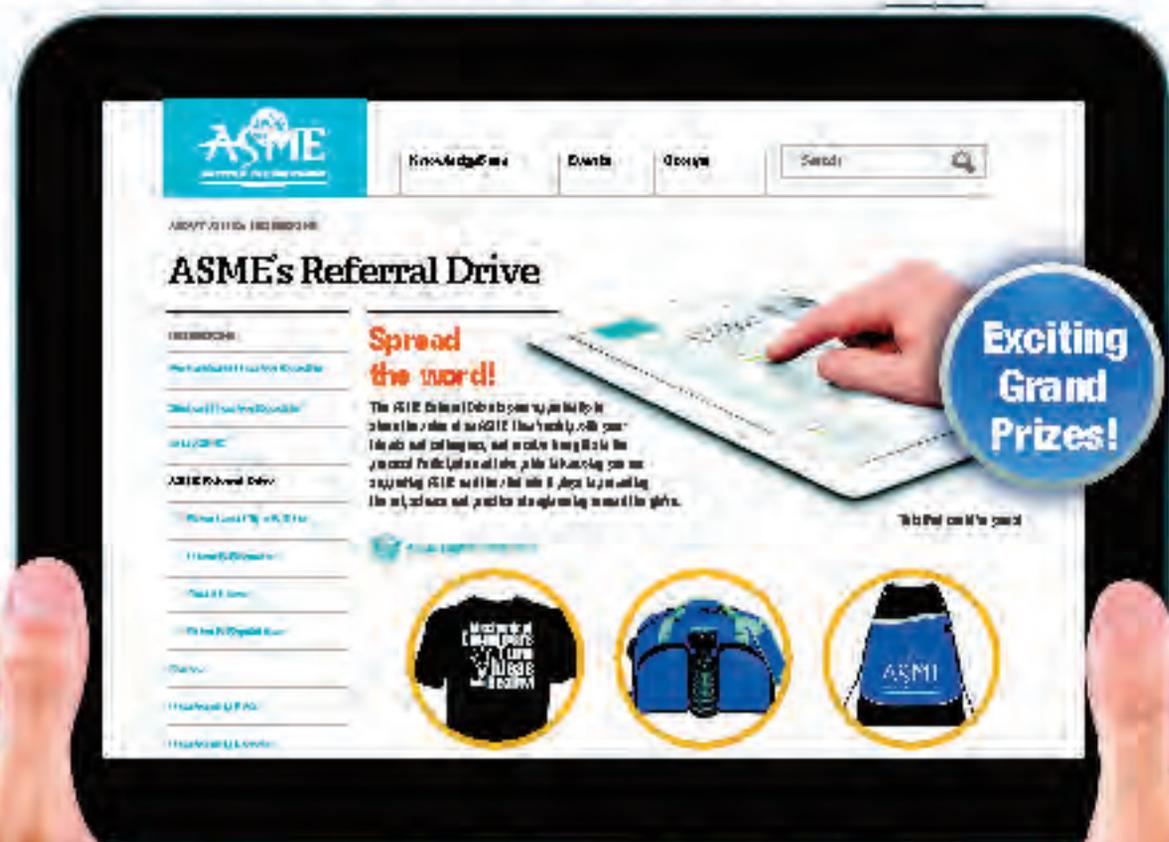
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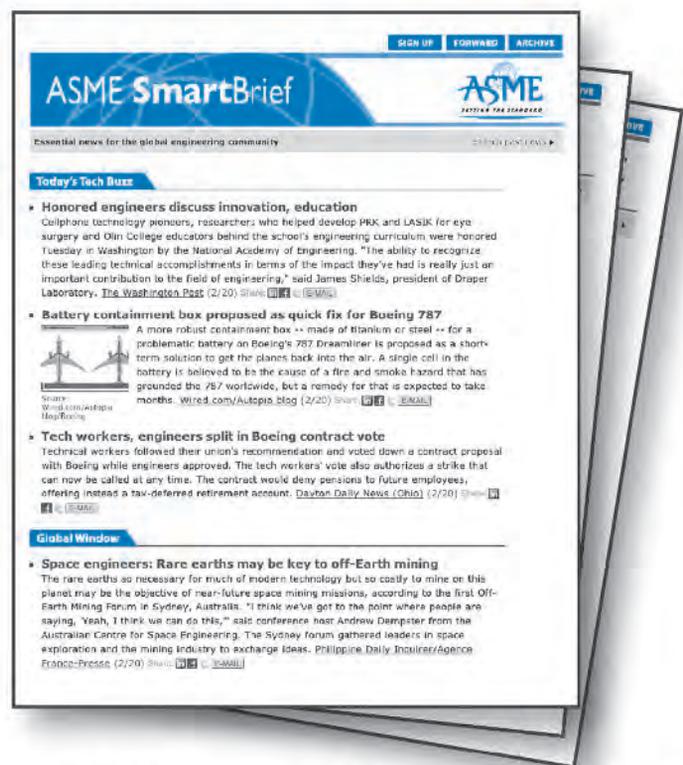
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(See also Nuclear Engineering)

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## Rail Transportation

### ASME 2012 Joint Rail Conference (JRC2012)

*Philadelphia, Pennsylvania, USA  
April 16–18, 2012*

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*Pueblo, Colorado  
March 16–18, 2011*

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### ASME 2012 Rail Transportation Division Fall Technical Conference (RTDF2012)

*Omaha, Nebraska, USA  
October 16–17, 2012*

**Volume: Rail Transportation Division; RTD Data Management Symposium**

2012 242 pp.  
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### ASME 2011 Rail Transportation Division Fall Technical Conference (RTDF2011)

*Minneapolis, Minnesota  
September 21–22, 2011*

2011 188 pp.  
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## Solar Energy

### ASME 2012 6th International Conference on Energy Sustainability (ES2012)

San Diego, California, USA  
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#### Parts A, B and C

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### ASME 2011 5th International Conference on Energy Sustainability (ES2011)

Washington, DC  
August 7–10, 2011

#### Parts A, B and C

2011 2,350 pp.  
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## Solid Waste Processing

### 2012 20th Annual North American Waste-to-Energy Conference (NAWTEC20)

Portland, Maine, USA  
April 23–25, 2012

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2012 274 pp.  
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Order No. G01555 \$130/\$65

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### 2011 19th Annual North American Waste-to-Energy Conference (NAWTEC19)

Lancaster, Pennsylvania  
May 16–18, 2011

2011 284 pp.  
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Order No. H01559 \$130/\$65

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#### COMING IN 2013

2013 22nd Annual North American Waste-to-Energy Conference (NAWTEC21)

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## Tribology

### ASME/STLE 2012 International Joint Tribology Conference (IJTC2012)

Denver, Colorado  
October 7–10, 2012

*Nanotribology; Biotribology; Engineered Surfaces; Boundary and Thin Film Lubrication; Fluid Film Lubrication; Machine Components Tribology; Contact Mechanics; Magnetic Storage Tribology; Symposium on Biomimetics and Green Tribology; Symposium on Condition Monitoring*

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### ASME/STLE 2011 International Joint Tribology Conference (IJTC2011)

Los Angeles, California  
October 24–26, 2011

2011 426 pp.  
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Content includes: state-of-the-art surveys; retrospective reviews; curricular reviews; research and education policy commentary; tutorials; experimental mechanics; theoretical and applied mechanics; computational mechanics; engineering science.

Editor: Harry Dankowitz, Ph.D.  
University of Illinois at Urbana

Published: January, March, May, July, September,  
November (online); December (annual bound volume)



## Journal of Biomechanical Engineering

The journal reports research results involving the application of mechanical engineering principles to the improvement of human health. The scope of relevant topics ranges from basic biology to biomedical applications and includes theoretical, computational, experimental, and clinical studies.

Topic areas include: artificial organs and prostheses; biofluid mechanics, measurements; bioheat transfer; biomaterials; cardiovascular biomechanics, cell and tissue engineering; gait & kinesiology, injury biomechanics, orthopaedic biomechanics, physiological systems.

Co-Editor: Victor Barocas, Ph.D.  
University of Minnesota  
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University of Pennsylvania

Published: monthly



## Journal of Computational and Nonlinear Dynamics

The purpose of the *Journal of Computational and Nonlinear Dynamics* is to provide a medium for rapid dissemination of original research results in theoretical as well as applied computational and nonlinear dynamics. The journal serves as a forum for the exchange of new ideas and applications in computational, rigid and flexible multi-body system dynamics and all aspects (analytical, numerical, and experimental) of dynamics associated with nonlinear systems. The broad scope of the journal encompasses all computational and nonlinear problems occurring in aeronautical, biological, electrical, mechanical, physical, and structural systems.

Editor: Ahmed Shabana, Ph.D.  
University of Illinois at Chicago

Published: January, April, July, October



## Journal of Applied Mechanics



The purpose of the *Journal of Applied Mechanics* is to serve as a vehicle for the communication of original research results of permanent interest in all branches of mechanics. The majority of the papers published in the journal are full-length articles of considerable depth. Comments on published papers may be submitted in the form of discussion, which is subject to a rebuttal by the author. All areas of theoretical and applied mechanics are covered, including but not limited to: aerodynamics; aeroelasticity; biomechanics; boundary layers; composite materials; computational mechanics; constitutive modeling of materials; dynamics; elasticity; experimental mechanics; flow and fracture; heat transport in fluid flows; hydraulics; impact; internal flow; mechanical properties of materials; mechanics of shocks; micromechanics; nanomechanics; plasticity; stress analysis; structures; thermodynamics of materials and in flowing fluids; thermo-mechanics; turbulence; vibration; wave propagation; and any related areas.

Editor: Yonggang Huang  
Northwestern University

Published: monthly



## Journal of Computing and Information Science in Engineering

The *Journal of Computing and Information Science in Engineering* (JCISE) publishes archival research results and advanced technical applications. Topics include: solid and geometric modeling; computational geometry; reverse engineering; virtual environments and haptics; tolerance modeling and computational metrology; rapid prototyping; internet-aided design, manufacturing and commerce; information models and ontologies for engineering applications; PDM/enterprise information management; AI/knowledge intensive CAD/CAM; engineering simulation and visualization, including FEA and meshing; CreativEIT; and computational algorithms/software development for mechanical product development.

Editor: Bahram Ravani, Ph.D.  
University of California, Davis

Published: March, June, September, December



## Journal of Dynamic Systems, Measurement, and Control

This journal publishes theoretical and applied original papers in the traditional areas implied by its name, as well as papers in interdisciplinary areas. Theoretical papers are expected to present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory. New theory or results that are only of mathematical interest without a clear engineering motivation or have a cursory relevance only are discouraged. "Application" is taken to include modeling, simulation of realistic systems, and corroboration of theory with emphasis on demonstrated practicality.

Topics include but are not limited to: adaptive and optimal control; aerospace systems; computer control; distributed parameter systems and control; energy systems and control; expert systems and artificial intelligence; fluid control systems; instrumentation and components; manufacturing technology; mechatronics; modeling and identification; nonlinear systems and control; power systems; production systems; real time control; robotics; servomechanics; signal processing; systems theory; automotive and transportation systems; uncertain systems and robust control and bio-systems.

Editor: J. Karl Hedrick, Ph.D.  
University of California, Berkeley

Published: January, March, May, July, September, November



## Journal of Electronic Packaging

The *Journal of Electronic Packaging* publishes papers that use experimental and theoretical (analytical and computer-aided) methods, approaches, and techniques to address and solve various mechanical, materials, and reliability problems encountered in the analysis, design, manufacturing, testing, and operation of electronic, and photonics components, devices, and systems. Small Scale Systems Integration and Packaging (S3IP), flexible electronics, materials with nano structures, and microsystems packaging are areas of growing interest for the journal. Originality, scientific merit and high engineering relevance are the major criteria for the acceptance of a submitted paper.

Editor: Bahgat Sammakia, Ph.D.  
SUNY Binghamton

Published: March, June, September, December



## Journal of Energy Resources Technology

Addressing the wide-ranging topics of energy generation, conversion, transportation and storage, the Journal disseminates technical information - peer-reviewed scholarly work, research papers, technical briefs, and feature articles - of permanent interest to the Journal's readership. Emphasis is given to extraction and conversion of chemical and thermal to electrical or mechanical forms of energy, including transportation energy requirements, petroleum engineering, natural/unconventional gas extraction technology, advanced power cycles and the relation between energy source and environment. Specific areas of importance include (but are not limited to): fundamentals of thermodynamics such as energy, entropy and exergy, laws of thermodynamics, thermoeconomics, alternative and renewable energy sources, internal combustion engines, (geo) thermal energy storage and conversion systems, fundamental combustion of fuels, energy resource recovery from biomass and solid wastes, carbon capture, land and offshore wells drilling, production and reservoir engineering, and the economics of energy resource exploitation.

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Editor: Hameed Metghalchi, Ph.D.  
Northeastern University

Published: March, June, September, December



## Journal of Engineering for Gas Turbines and Power

The journal publishes archival-quality papers in the areas of gas and steam turbine technology, nuclear engineering, internal combustion engines, and fossil power generation. It covers a broad spectrum of practical topics of interest to industry. Subjects include: thermodynamics; fluid mechanics; heat transfer; and modeling; propulsion and power generation components and systems; combustion, fuels, and emissions; nuclear reactor systems and components; thermal hydraulics; heat exchangers; nuclear fuel technology & waste management; I. C. engines for marine, rail, and power generation; steam and hydro power generation; advanced cycles for fossil energy generation; pollution control and environmental effects.

Specific topic areas include: gas and steam turbines; nuclear reactor engineering; I. C. engines; fossil energy; high-temperature materials and metallurgy; coal, biomass, and alternative fuels; cogeneration and combined cycles; micro-turbines; oil and gas applications; rotor balancing and vibration; bearings; lubrication; friction and wear; fuel injection and sprays; combustion and emissions technologies; HCCI engine combustion; hybrid vehicle control; high-temperature nuclear reactors; advanced steam cycles; thermal hydraulics CFD; heat exchangers and cooling systems; nuclear reactor structural integrity and life cycle; controls, diagnostics, and instrumentation; steam generators and condensers; and component life management.

Editor: David Wisler, Ph.D.  
GE Aircraft Engines

Published: monthly



## Journal of Engineering Materials and Technology

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Editor: Hussein Zbib, Ph.D.  
Washington State University

Published: January, April, July, October



## Journal of Fluids Engineering

The *Journal of Fluids Engineering* disseminates technical information in fluid mechanics of interest to researchers and designers in mechanical engineering. The majority of papers present original analytical, numerical or experimental results and physical interpretation of lasting scientific value. Other papers are devoted to the review of recent contributions to a topic, or the description of the methodology and/or the physical significance of an area that has recently matured. This journal publishes papers in the areas of multiphase flows, pumps, aerodynamics, boundary layers, bubbly flows, cavitation, compressible flows, convective heat/mass transfer as it is affected by fluid flow, duct and pipe flows, free shear layers, flows in biological systems, fluid-structure interaction, fluid transients and wave motion, jets, naval hydrodynamics, sprays, stability and transition, turbulence, wakes, microfluidics, and other fundamental/applied fluid mechanical phenomena and processes. In addition, contributions to the journal emphasize investigative techniques, analytical methods, computational fluid mechanics, and experimental methods such as laser-doppler-velocimetry, hot film and hot wire anemometry, particle-imager-velocimetry, and other innovative advances as they appear.

Editor: Malcolm J. Andrews, Ph.D.  
Los Alamos National Laboratory

Published: monthly



## Journal of Fuel Cell Science and Technology

The *Journal of Fuel Cell Science and Technology* publishes peer-reviewed archival scholarly articles, Research Papers, Technical Briefs, and feature articles on all aspects of the science, engineering, implementation, and manufacturing of fuel cells of all types. Papers describing fuel cell case studies involving examples of real-life systems are also accepted. Topic areas include: development of constituent materials, joining, bonding, connecting, interface/interphase regions, cell design, processing and manufacturing, multi-scale modeling, aging, durability and damage tolerance, reliability, availability, stack design, processing and manufacturing, system design and manufacturing, power electronics, optimization and control, fuel cell applications, fuels, infrastructure, case studies and updates of fuel cell implementation and state-of-the-art in regions/countries/continents is also of interest.

Editor: Nigel Sammes, Ph.D.  
Pohang University of Science and Technology (POSTECH)

Published: February, April, June, August, October, December



## Journal of Heat Transfer

The Journal disseminates information of permanent interest in the areas of heat and mass transfer. Contributions consist of results from fundamental research that apply to thermal energy or mass transfer in all fields of mechanical engineering and related disciplines. Topic areas include, but are not limited to: biological heat and mass transfer; combustion and reactive flows; conduction; electronic and photonic cooling; evaporation, boiling and condensation; experimental techniques; forced convection; heat exchanger fundamentals; heat transfer enhancement; heat and mass transfer; heat transfer in manufacturing; jets, wakes, and impingement cooling; melting and solidification; microscale and nanoscale heat and mass transfer; natural and mixed convection; porous media; radiative heat transfer; thermal systems; and two-phase flow and heat transfer. Such topical areas may be seen in: aerospace; the environment; gas turbines; biotechnology; electronic and photonic equipment; energy systems, fire and combustion, heat pipes, manufacturing and materials processing, low temperature and arctic region heat transfer; refrigeration and air conditioning; homeland security systems; multi-phase processes; and microscale and nanoscale devices and processes. Archival research results on the evaluation of thermophysical properties associated with heat and mass transfer as well as on the theory of heat and mass transfer are appropriate.

Editor: Terrence W. Simon, Ph.D.  
University of Minnesota      Published: monthly



## Journal of Mechanical Design

The ASME Journal of Mechanical Design (JMD) serves the broad design community as the venue for scholarly, archival research in all aspects of the design activity with emphasis on design synthesis. JMD has traditionally served the ASME Design Engineering Division and its technical committees, but it welcomes contributions from all areas of design with emphasis on synthesis. JMD communicates original contributions, primarily in the form of research articles of considerable depth but also technical briefs, design innovation papers, book reviews, and editorials.

Topic areas include: design automation, including design representation, virtual reality, geometric design, design evaluation, design optimization, risk and reliability-based optimization, design sensitivity analysis, system design integration, ergonomic and aesthetic considerations, and design for market systems; design of direct contact systems, including cams, gears and power transmission systems; design education; design of energy, fluid, and power handling systems; design innovation and devices, including design of smart products and materials; design for manufacturing and the life cycle, including design for the environment, DFX, and sustainable design; design of mechanisms and robotic systems, including design of macro-, micro- and nano-scaled mechanical systems, machine component, and machine system design; design theory and methodology, including creativity in design, decision analysis, design cognition, and design synthesis.

Editor: Shapour Azarm, Ph.D.  
University of Maryland, College Park

Published: monthly



## Journal of Manufacturing Science and Engineering

The Journal disseminates original, theoretical and applied research results of permanent interest in all branches of manufacturing including emerging areas. Research Papers are peer-reviewed full-length articles of considerable depth. The Editorial Board consists of a team of international experts who provide expertise and conduct the peer-review process for the different topical areas covered by the Journal. Areas of interest include, but are not limited to: manufacturing process and equipment development, modeling, and simulation at different scales, such as material removal by machining, abrasive processes, forming, casting, joining, polymer processing, EDM, ECM, laser processing, solid-free-form fabrication, rapid prototyping and direct manufacturing, nano/micro/meso-scale manufacturing, medical device/biomedical manufacturing; desktop manufacturing; manufacturing of advanced materials; powder processing; tooling and fixturing; metrology, inspection & quality control; CAD/CAM/CIM; sensors for manufacturing processes and machines; process and machine dynamics; computer control of processes and machines; surface & precision engineering; tribology; manufacturing automation; assembly operations, robotics; material handling; production systems; design for manufacturing and assembly; life cycle analysis; textile production.

Editor: Y. Lawrence Yao  
Columbia University      Published: February, April, June,  
August, October, December



## Journal of Mechanisms and Robotics

The ASME Journal of Mechanisms and Robotics publishes research contributions to the fundamental theory, algorithms and applications for robotic and machine systems. Topics include theoretical and applied kinematics, innovative manipulator design, walking machines, mechanical hands, grasping, fixturing, compliant mechanisms, electro-mechanical systems, and structures.

Editor: J. Michael McCarthy, Ph.D.  
University of California – Irvine

Published: February, May, August, November



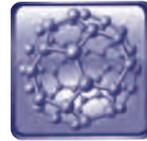
## Journal of Medical Devices

The journal presents papers on devices that improve diagnostic interventional and therapeutic treatments focusing on applied research and the development of new medical devices or instrumentation. It provides special coverage of novel devices that allow new surgical strategies, new methods of drug delivery, or possible reductions in the complexity, cost, or adverse results of health care. The Design Innovation category features papers focusing on novel devices, including some with limited clinical or engineering results. The Medical Device News section provides coverage of advances, trends, and events. The journal accepts submissions in the following categories: new medical sensors/actuators, orthopedic devices, cardiovascular devices, rehabilitation devices, neurological devices, bioheat transfer devices, medical instrumentation, image guided intervention/treatment, endoscopic/laparoscopic devices, minimally invasive devices, human performance/force assessment, tissue engineered devices, drug/cell deliver systems, medical robotics, medical device design processes, medical device manufacturing, and human factors in medical devices.

Co-Editor: Arthur G. Erdman, Ph.D.  
University of Minnesota

Co-Editor: Gerald E. Miller, Ph.D.  
Virginia Commonwealth University

Published: March, June, September, December



## Journal of Nanotechnology in Engineering and Medicine

The *ASME Journal of Nanotechnology in Engineering and Medicine* provides an interdisciplinary forum uniquely focused on conveying advancements in nanoscience and applications of nanostructures and nanomaterials to the creative conception, design, development, analysis, control and operation of devices and technologies in engineering, medical, and life science systems. High-quality contributions of three types are sought: original research reports addressing nanoscale phenomena, synthesis and analysis of nanomaterials and devices, and applications of these; reviews of emerging nanotechnology topics and research needs to impact engineering and medicine; and opinions/views on the developments and potential applications of nanoscience, engineering and technology.

Editor: Boris Khusid, Ph.D.  
New Jersey Institute of Technology

Published: February, May, August, November



## Journal of Offshore Mechanics and Arctic Engineering

The journal disseminates the current state-of-the-art and research activities covering the current and future technologies of many innovative offshore, arctic, and naval structures, emphasizing the fundamental and discussion mechanics of topics, rather than the applications and case histories. The journal also documents significant developments in a related field or major accomplishments of a renowned scientist by programming themed issues to record these events.

Topic areas include: offshore mechanics, drilling technology, fixed and floating production systems; ocean engineering, hydrodynamics, ship motions, ocean waves and associated statistics; structural mechanics, safety, reliability and risk analysis; riser mechanics, cable and mooring dynamics, pipeline and subsea technology; materials engineering, fatigue and fracture, welding technology, non-destructive testing and inspection technology, corrosion protection and control; fluid-structure interaction, computational fluid dynamics, flow and vortex-induced vibrations; marine and offshore geotechniques, soil mechanics, soil-pipeline interaction; ocean renewable energy development and technology; ocean space utilization; petroleum technology; polar and arctic science and technology, ice mechanics, arctic drilling and exploration, arctic structures, ice-structure and ship interaction, permafrost engineering, arctic thermal design.

Editor: Solomon C. Yim, Ph.D.  
Oregon State University

Published: February, May, August, November



## Journal of Micro- and Nano-Manufacturing

The *ASME Journal of Micro and Nano-Manufacturing* is the latest addition to the Transactions of the ASME journal series. This new title provides a forum for the rapid dissemination of original theoretical and applied research in the areas of micro and nano-manufacturing that are related to process innovation, accuracy and precision, throughput enhancement, material utilization, compact equipment development, environmental and life-cycle analysis and predictive modeling of manufacturing processes with features sizes less than one hundred micrometers.

Editor: Jian Cao, Ph.D.  
Northwestern University

Published: March, June, September, December



## Journal of Pressure Vessel Technology

The *Journal of Pressure Vessel Technology* is the premier publication for the highest-quality research and interpretive reports on the design, analysis, fabrication, construction, inspection, operation, and failure prevention of pressure vessels, piping, pipelines, power and heating boilers, pumps, valves, and other pressure-bearing components, as well as the nondestructive evaluation of critical components in mechanical engineering applications. The Journal cover all topics dealing with the design and analysis of pressure vessels, piping, and components and contains discussions of their related codes and standards. Applicable pressure technology areas of interest include dynamic and seismic analysis; equipment qualification; fabrication; fatigue and fracture prediction; finite and boundary element methods; fluid-structure interaction; high pressure engineering; elevated temperature analysis and design; inelastic analysis; life extension; lifeline earthquake engineering; PVP materials and their property databases; NDE; safety and reliability; and verification and qualification of software.

Editor: Young W. Kwon  
Naval Postgraduate School

Published: February, April, June, August, October, December



## Journal of Thermal Science and Engineering Applications

The *ASME Journal of Thermal Science and Engineering Applications* focuses on the dissemination of information of permanent interest in applied thermal sciences and engineering and is intended to be complementary to the *ASME Journal of Heat Transfer*, which focuses on fundamental research. Contributions must have clear relevancy to an industry, an industrial process, or a device. While the processes and phenomena discussed may be complex, the results must have a relatively straightforward or feasible path to application. Subject areas could be as narrow as a particular phenomenon or device or as broad as a system. Papers are sought that have long-term relevance to specific applications including: original research of an applied nature; application of thermal sciences to processes or systems; technology reviews; and identification of research needs to solve industrial problems at all time and length scales. Contributions should describe research in applied areas pertaining to thermal energy transport in equipment and devices, thermal and chemical systems, and thermodynamic processes, with an emphasis on application of the fundamentals to the solution of problems faced by industry.

Editor: Michael Jensen, Ph.D.  
Rensselaer Polytechnic Institute

Published: March, June, September, December



## Journal of Solar Energy Engineering Including Wind Energy and Building Energy Conservation

The *Journal of Solar Energy Engineering - Including Wind Energy and Building Energy Conservation* - publishes research papers that contain original work of permanent interest in all areas of solar energy and energy conservation as well as discussions of policy and regulatory issues that affect renewable energy technologies and their implementation. Papers that do not include original work but nonetheless present quality analysis or incremental improvements to past work may be published as technical briefs. Review papers are accepted but should be discussed with the editor prior to submittal. The journal also publishes a section called Solar Scenery that features photographs or graphical displays of significant new installations or research facilities.

Topic areas include: fundamentals, solar optics, solar collectors, solar thermal power, photovoltaic, solar chemistry and bioconversion, solar space applications, wind energy, heating and cooling, energy storage, testing and measurement, conservation and solar buildings, emerging technologies, and energy policy.

Editor: Gilles Flamant, Ph.D.  
Processes, Materials and Solar Energy  
Laboratory-PROMES

Published: February, May, August, November



## Journal of Tribology

One of the most respected archival journals in the field of tribology, the *Journal of Tribology* annually publishes over 100 outstanding technical articles of permanent interest to the tribology community, attracting contributions by tribologists worldwide. *Journal of Tribology* features a mix of experimental, numerical, and theoretical articles dealing with all aspects of the field, including, but not limited to: friction and wear, fluid film lubrication, elasto-hydrodynamic lubrication, surface properties and characterization, contact mechanics, magnetic recordings, tribological systems, seals, bearing design and technology, gears, metalworking, lubricants, machinery diagnostics technologies, sliding electrical systems, artificial joints, and other bio-medical tribological systems. In addition to being of interest to engineers and other applied scientists doing research in the field, the information published in the journal is of great importance to engineers who design or use mechanical components, such as bearings, gears, seals, magnetic recording heads and disks, prosthetic joints, and components involved in manufacturing processes.

Editor: Michael Khonsari, Ph.D.  
Louisiana State University

Published: January, April, July, October



## Journal of Turbomachinery



The journal publishes archival-quality, peer-reviewed technical papers that advance the state-of-the-art of turbomachinery technology related to gas turbine engines. The broad scope of the subject matter includes the fluid dynamics, heat transfer and aeromechanics technology associated with the design, analysis, modeling, testing and performance of turbomachinery. Emphasis is placed on gas-path technologies associated with axial compressors, centrifugal compressors and turbines.

Topic areas included: aerodynamic design, analysis and test of compressor and turbine blading; compressor stall, surge and operability issues; heat transfer phenomena and film cooling design, analysis and test in turbines, aeromechanical instabilities, computational fluid dynamics (CFD) applied to turbomachinery, boundary layer development, measurement techniques, and cavity and leaking flows.

*Editor: David Wisler, Ph.D.  
GE Aircraft Engines*

*Published: January, March, May, July, September, November*



## Journal of Vibration and Acoustics

The journal is the premier international venue for publication of original research concerning mechanical vibration and sound. Our mission is to serve researchers and practitioners who seek cutting-edge theories and computational and experimental methods that advance these fields. Our published studies reveal how mechanical vibration and sound impact the design and performance of engineered devices and structures and how to control their negative influences.

Topic areas included: vibration of continuous and discrete dynamical systems, linear and nonlinear vibrations, random vibrations, wave propagation, modal analysis, mechanical signature analysis, structural dynamics and control, vibration energy harvesting, vibration suppression, vibration isolation, passive and active damping, machinery dynamics, rotor dynamics, acoustic emission, noise control, machinery noise, structural acoustics, fluid-structure interaction, aeroelasticity, and flow-induced vibration and noise.

*Editor: Noel C. Perkins, Ph.D.  
University of Michigan*

*Published: February, April, June, August, October, December*

## Mechanical Engineering

### Official Monthly Magazine of ASME

The award-winning *Mechanical Engineering* magazine is the flagship publication of ASME. It provides an interdisciplinary view of the mechanical engineering profession and is a recognized sourcebook and tool to help engineers navigate today's engineering challenges as well as tomorrow's breakthrough technologies. The magazine monitors and covers a range of areas: From nanotechnology to large turbine engines; from engineering management issues to helping secure patents and trademarks; from design to process to integrated systems, *Mechanical Engineering* magazine keeps readers informed and on the leading edge. *Mechanical Engineering* showcases emerging technologies, offers commentary on new techniques, and provides a road map for charting management careers in an increasingly interdisciplinary work environment.

**Note to ASME members: One subscription to *Mechanical Engineering* magazine is included with membership.**

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