Training for Engineering Transformation

In the last century alone, the engineering industry has boldly brought us through several industrial revolutions. Great engineering achievements have positively impacted humankind. But as remarkable as these innovations are, there are many more engineering opportunities to be realized.

At ASME Learning and Development (L&D), our mission is to advance the skills and grow careers of engineering professionals and their teams. Our vision is to empower the global engineering community to solve the challenges of today and tomorrow.

Your Workforce Development Resource

ASME Learning and Development has been collaborating with engineering organizations to aid in their professional development initiatives for decades. ASME Corporate Training can upskill your team and solve for your organization’s unique needs. From working with you to standardize your business processes with best practices and boosting productivity to improving employee engagement, we can help you maximize the potential of your workforce all while growing your organization’s competitive edge.

Flexible Training for Your Team

Work with ASME Corporate Training to create a comprehensive learning solution for your workforce, built from our broad range of courses, learning paths and credentials. With technical and non-technical topics available in a variety of formats, including live and on demand, we collaborate with you to create a professional development learning solution based on your workforce’s unique schedules, preferences, responsibilities and aspirations.

Top Industry Experts

Our team of accomplished educators, with years of technical knowledge and experience, focus on you and your organization to provide targeted world-class professional engineering instruction. All of our educators are ASME-approved and meet IACET accreditation requirements. Many also serve as ASME Code Committee members and/or volunteers. Our top educators can also deliver learning experiences globally, often in multiple languages.
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ASME VIRTUAL CLASSROOM
Live online courses with an instructor and peers.

Remote Learning Reinvented
ASME Virtual Classroom is a live instructor-led learning solution that provides working professionals with an enhanced classroom learning experience through video conferences with ASME’s world-class instructors, collaboration with peers, discussion boards, online assessments, and much more.

With thousands of hours of successful virtual instruction already logged, ASME Learning & Development is poised to provide you with training you can trust.

ASME Virtual Classroom delivers an enhanced online learning experience with:

- Real-time live learning from expert instructors
- Interactive Q&A
- Discussion boards, polls and surveys
- Online assessments (when applicable)
- Digital access to course material
- Digital certificate of completion
- Collaboration with peers

“THE COURSE MATERIAL, INSTRUCTOR, AND MODERATOR WERE EXCELLENT”
VCPD570  
**Geometric Dimensioning & Tolerancing Fundamentals**  
PDHs: 15  
CEUs: 1.5  
Format: Virtual Classroom  
Read and create engineering drawings and interpret design intent per ASME Y14.5 - Geometric Dimensioning and Tolerancing (GD&T).

VCPD561  
**Geometric Tolerancing Applications and Tolerance Stacks**  
PDHs: 15  
CEUs: 1.5  
Format: Virtual Classroom  
Apply Geometric Dimensioning and Tolerancing (GD&T) to your designs and perform tolerance stacks through authentic case studies.

VCPD603  
**ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) Design and Applications Combo Course**  
PDHs: 30  
CEUs: 3  
Format: Virtual Classroom  
Gain a comprehensive understanding of Geometric Dimensioning and Tolerancing (GD&T) and apply it to your designs and stacks per ASME Y14.5.

VCPD606  
**Geometric Dimensioning and Tolerancing for Quality, Inspection and Reporting**  
PDHs: 15  
CEUs: 1.5  
Format: Virtual Classroom  
This course focuses on how to apply Geometric Dimensioning and Tolerancing (GD&T) in inspection and apply content from the ASME Y14.45-2021 Standard for Measurement Data Reporting.

VCPD865  
**Additive Manufacturing: Laser Powder Bed Fusion**  
PDHs: 18  
CEUs: 1.8  
Format: Virtual Classroom  
An overview of Additive Manufacturing utilizing Laser Powder Bed Fusion (L-PBF) technology focused specifically on the engineering aspects of part production.

VCPD841  
**Verification and Validation in Scientific Computing**  
PDHs: 15  
CEUs: 1.5  
Format: Virtual Classroom  
Learn techniques and methods for verification of numerical simulations, validation of mathematical models, and quantify uncertainty in simulations.

VCPD842  
**Probabilistic and Uncertainty Quantification Methods for Model Verification & Validation**  
PDHs: 15  
CEUs: 1.5  
Format: Virtual Classroom  
Articulate precise approximation & assumption statements, quantify the total uncertainty, and make risk-informed decisions with any model.

VCPD843  
**Verification & Validation of Models and Simulations Combo Course**  
PDHs: 30  
CEUs: 3  
Format: Virtual Classroom  
Verify, validate, and quantify uncertainty, assess credibility, and make risk-informed decisions for models and simulations.

VCPD268  
**Fracture Mechanics**  
PDHs: 23  
CEUs: 2.3  
Format: Virtual Classroom  
Gain a practical understanding of fatigue and fracture calculations using the latest methodologies, including weight functions and the FAD approach.

VCPD231  
**Applied Shock and Vibration Analysis and Design**  
PDHs: 23  
CEUs: 2.3  
Format: Virtual Classroom  
Learn how to compute natural frequencies and response to dynamic forces, and designs to reduce vibration of new and existing systems.
Select and size heat exchangers for a given duty with various methods of analysis, advantages & disadvantages, and design considerations.

Learn root cause analysis (RCA) fundamentals, explore RCA tools’ purpose and application, and perform RCA on real-world problems to find solutions.

Apply the requirements of API 579/ASME FFS-1 to make run, repair, and replacement decisions for pressure vessels, piping, and tanks.

Understand and apply ASME’s BPVC Section VIII, Division 1 to pressure vessel design and construction.

Understand the design and construction of pressure vessels and comply with ASME BPVC Section VIII Div. 1, & API 579/ASME FFS-1 to ensure integrity, reliability, and safety of pressure equipment.

Apply various requirements to the inspection, repair and alteration of in-service pressure vessels and equipment.

Leverage the requirements of Section VIII, Div 1, including design, materials, fabrication, testing and inspection of pressure vessels.

Apply fitness-for-service assessment methods to make run-or-repair decisions on pressure equipment, piping and pipelines.

Master the complexities of fitness-for-service and repair assessments with industry best practices and a special focus on the API579/ASME FFS-1.
VCPD769  
ASME/API Boilers and Fired Pressure Equipment Operation and Maintenance  
PDHs: 23  CEUs: 2.3  Format: Virtual Classroom  
Gain knowledge of boiler operation and maintenance per the requirements of ASME BPVC Sections I, III, IV, VI, VII, and VIII.

VCPD770  
Boilers and Fired Pressure Equipment Inspection, Repairs, and Alterations Industry Best Practices  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Gain knowledge of boiler inspection and methods for repairs and alterations in compliance with ASME BPV, NBIC and API regulations.

VCPD771  
ASME BPVC, API and NBIC Boiler Operation, Maintenance, Inspection, Repairs, and Alterations Combo Course  
PDHs: 38  CEUs: 3.8  Format: Virtual Classroom  
Comply with BPVC codes to safely operate and maintain boilers throughout their lifecycle from operation & inspection to repairs & alterations.

VCPD837  
ASME B31.3 and B311 Practical Piping Design for Process and Power Applications  
PDHs: 30  CEUs: 3  Format: Virtual Classroom  
Apply the requirements of B31.3 and B311 to design, analysis, materials, fabrication, testing, and inspection for process and power piping systems.

VCPD61  
ASME B31 and API 579/ASME FFS-1 Full Life Cycle & Integrity of Piping Systems Combo Course  
PDHs: 53  CEUs: 5.3  Format: Virtual Classroom  
Understand the full piping life cycle, comply with ASME B31.3, B311, & API 579/ASME FFS-1, and ensure system integrity, reliability, and safety.

VCPD457  
ASME B31.3 Process Piping Design, Materials Fabrication, Examination, and Testing  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Explore materials, fabrication, examination, and testing per the requirements of ASME B31.3 Process Piping.

VCPD91  
ASME B31.3 Process Piping Design, Materials, Fabrication, Examination and Testing Combo Course  
PDHs: 40  CEUs: 3.5  Format: Virtual Classroom  
Apply the ASME B31.3 Code requirements throughout the entire process piping plant lifecycle and prevent system failures.

VCPD838  
ASME B31.1 Power Piping Design  
PDHs: 25  CEUs: 2.5  Format: Virtual Classroom  
Understand and apply the ASME B311 requirements to power piping system design and analysis including criteria, requirements and failure modes.
VCPD839  
**ASME B31.1 Power Piping Materials Fabrication, Examination & Testing**  
**PDHs:** 15  **CEUs:** 1.5  **Format:** Virtual Classroom  
Explore the background and meet the requirements of ASME B311 focusing on power piping construction and maintenance.

VCPD840  
**ASME B31.1 Power Piping Design, Materials, Fabrication, Examination and Testing Combo Course**  
**PDHs:** 40  **CEUs:** 4  **Format:** Virtual Classroom  
Employ the ASME B311 requirements throughout the entire system lifecycle including safe and effective design, construction, operation, and maintenance of power piping.

VCPD870  
**ASME B31.8 Gas Transmission & Distribution Piping Systems**  
**PDHs:** 23  **CEUs:** 2.3  **Format:** Virtual Classroom  
Gain an understanding of ASME B31.8 including design, operation, maintenance, and repair of natural gas distribution and transmission pipelines.

VCPD731  
**ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids**  
**PDHs:** 15  **CEUs:** 1.5  **Format:** Virtual Classroom  
Adhere to principles of ASME B31.4 Code for the design, construction, and operation of liquid pipeline systems while minimizing risks.

VCPD410  
**Detail Engineering of Piping Systems**  
**PDHs:** 23  **CEUs:** 2.3  **Format:** Virtual Classroom  
Develop Piping and Instrumentation Diagrams (P & IDs), plot plans, and arrangements for process, power and utility equipment piping systems.

VCPD777  
**Pipe Sizing, Pipe Wall Stresses, and Water Hammer**  
**PDHs:** 23  **CEUs:** 2.3  **Format:** Virtual Classroom  
Understand the relationship between pipe wall stresses and the changes in fluid pressure and velocity to predict and prevent pipe wall failure.

VCPD633  
**Centrifugal Pumps: Testing, Design, and Analysis**  
**PDHs:** 23  **CEUs:** 2.3  **Format:** Virtual Classroom  
Understand and apply key principles, design methods, and analysis strategies related to centrifugal pumps for piping systems and pipelines.

VCPD853  
**Pump Design, Selection & Sizing for Optimum Performance Combo Course**  
**PDHs:** 53  **CEUs:** 5.3  **Format:** Virtual Classroom  
Learn and apply key principals related to pumps including, selection, installation, design methods, operation, maintenance, and analysis strategies of pumps and valves.

VCPD859  
**PDHs:** 46  **CEUs:** 4.6  **Format:** Virtual Classroom  
Predict and prevent the impact of shock and vibration in structures exposed to high-energy fluid flow, base excitations & earthquakes, and rotating equipment or transportation.

VCPD675  
**ASME NQA-1 Lead Auditor Training**  
**PDHs:** 30  **CEUs:** 3  **Format:** Virtual Classroom  
Review auditing program methods and techniques to conduct audits of nuclear quality assurance programs per ASME NQA-1 and N45.2.23 auditors.
VCPD606
ASME NQA-1 Requirements for Computer Software used in Nuclear Facilities
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom
Learn to apply NQA-1 to the practice of developing, using, maintaining or procuring software used in nuclear facilities.

VCPD615
Nuclear Piping Systems ASME BPV Code, Section III and B31.1: Design, Integrity-Operability Assessment, and Repairs
PDHs: 20  CEUs: 2  Format: Virtual Classroom
Apply ASME Section III, Division 1, Subsections NB/NC/ND to the design, analysis, and qualification of nuclear power plant piping systems.

VCPD184
ASME BPV Code Section III, Division 1: Rules for Construction of Nuclear Facility Components and USNRC Regulations
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Explore Section III, Division 1, how it interfaces with other BPVC sections, and how it is implemented by the US NRC in its regulations.

VCPD192
ASME BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components
PDHs: 38  CEUs: 3.8  Format: Virtual Classroom
Understand ASME Section XI rules for in-service inspection, maintenance, testing, and requirements of nuclear power plant components.

VCPD632
Design-by-Stress Analysis per ASME BPV Code, Section III, Division 1: Class 1, 2 and 3 Components
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Apply Appendix XIII Design by Stress Analysis per Section III, Division 1 to vessels, pumps, valves and piping in nuclear power plants.

VCPD679
Fundamentals of Pumps and Valves and Their Selection for Optimum System Performance
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Learn the fundamentals, selection, installation, operation, maintenance, and troubleshooting of pumps and valves.

VCPD146
Flow Induced Vibration with Applications to Failure Analysis
PDHs: 23  CEUs: 2.3  Format: Virtual Classroom
Learn and apply the latest design and analysis tools for the prediction and prevention of vibration in structures exposed to high energy fluid flow.

VCPD645
ASME BPV Code, Section IX: Welding, Brazing, & Fusing Qualifications
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Comply with the requirements of ASME Section IX rules for qualification of welding and brazing procedures and personnel.

VCPD359
Practical Welding Technology
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Understand welding technology, including applicable codes and standards, principles, procedures, symbols, material selection and preheat.

VCPD857
ASME BPV Code Section IX, Welding Principles, and Procedures Combo Course
PDHs: 60  CEUs: 6  Format: Virtual Classroom
Gain a comprehensive understanding of welding terminology, materials science, processes, and meet the requirements of ASME BPV Code Section IX.
VCPD386  
**Design of Bolted Flange Joints**  
PDHs: 8  CEUs: 0.8  Format: Virtual Classroom  
Understand and apply ASME codes and standards for bolted flange joints, specifically flange design for pressure vessels and piping.

VCPD577  
**Bolted Joint Assembly Principles Per ASME PCC-1-2019**  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Identify the principles of joint design, assembly, and reliability per ASME PCC-1-2019.

VCPD539  
**Bolted Joints and Gasket Behavior**  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Understand bolted joint fundamentals and gasketed joint torque factors, bolting patterns, and gasket behavior, tightness, selection and specification.

VCPD513  
**TRIZ: The Theory of Inventive Problem Solving**  
PDHs: 23  CEUs: 2.3  Format: Virtual Classroom  
Create breakthrough innovations by leveraging patterns documented in the world’s most inventive patents with TRIZ.

VCPD50  
**Communicating and Problem Solving for Today’s Engineering**  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Bridge the communications gap and navigate all business situations more effectively with key interpersonal skills.

VCPD601  
**ASME PCC-1 Bolted Joints and Gaskets Design, Assembly, and Reliability Combo Course**  
PDHs: 38  CEUs: 3.8  Format: Virtual Classroom  
Master bolted joints and gasket design, behavior and assembly principles per ASME PCC-1-2019.

VCPD851  
**Managing Others in Times of Change**  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Reduce the impact of accelerated change, influence others and mitigate common leadership challenges.

VCPD844  
**Essential Soft Skills for Today’s Engineering Professionals Combo Course**  
PDHs: 30  CEUs: 3  Format: Virtual Classroom  
Maximize your business communication, leadership and interpersonal soft skills in all workplace situations.

VCPD676  
**Strategic Thinking in Times of Change**  
PDHs: 8  CEUs: 0.8  Format: Virtual Classroom  
Develop a strategic mindset, approach challenges with innovation and employ strategic thinking to add value to your organization.

VCPD475  
**The Engineering Manager: Engaging Today’s Workforce**  
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom  
Implement essential management skills, tackle common challenges engineering managers encounter and reach high levels of performance.
VCPD860
Innovation and Strategic Thinking for Engineers Combo Course
PDHs: 30  CEUs: 3  Format: Virtual Classroom
Identify, prioritize, and realize engineering breakthroughs with practical tools and concrete methods in strategic thinking and innovation.

VCPD685
Management and Strategic Thinking to Lead High-Performing Engineering Teams Combo Course
PDHs: 23  CEUs: 2.3  Format: Virtual Classroom
Establish key managerial and strategic thinking skills to lead engineering teams and colleagues with experience, precision, and excellence.

VCPD467
Project Management for Engineers and Technical Professionals
PDHs: 23  CEUs: 2.3  Format: Virtual Classroom
Apply key PMI project management concepts, including big-picture thinking, repeatable processes, and increased efficiency.

VCPD794
Agile Project Management
PDHs: 15  CEUs: 1.5  Format: Virtual Classroom
Build critical knowledge of Agile guidelines from PMI / PMBOK, including hitting results in minimum time and the fail fast mantra.

VCPD836
Traditional and Agile Project Management for Engineers and Technical Professionals Combo Course
PDHs: 38  CEUs: 3.8  Format: Virtual Classroom
Learn both traditional and agile project management methodologies and gain a robust skillset for every engineering project or situation.
NEW ON DEMAND LEARNING PATHS

Learning Paths offer a combination of courses organized by our team into a recommended learning sequence.

CHOOSE FROM COURSES ON Y14.5 GEOMETRIC DIMENSIONING & TOLERANCING (GD&T), BPVC SECTION VIII, B31 POWER & PROCESS PIPING, NUCLEAR POWER PLANT COMPONENTS, AND MORE
**LP107**
**ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) Fundamentals Learning Path**
PDHs: 7  Format: Learning Path
Understand the foundational rules, definitions, requirements and best practices of ASME's Y14 Standards in ASME's Fundamentals of Geometric Dimensioning & Tolerancing Learning Path.

**LP101**
**B31 Process and Power Piping Design**
PDHs: 14  CEUs: 1  Format: Learning Path
Understand the principles of ASME's B31 piping design code and apply best practices to process and power piping systems in ASME's B31 Process and Power Piping Design Learning Path.

**LP106**
**ASME BPV Code, Section VIII, Division 1: Pressure Vessel Combo Course (On Demand)**
PDHs: 22  CEUs: 2.2  Format: Learning Path
Gain a comprehensive understanding of Section VIII, Div 1, requirements including design, materials, fabrication, testing and inspection of pressure vessels in this On Demand Learning Path.

**LP109**
**Bolting Qualification Learning Path**
PDHs: 12  CEUs: 1.2  Format: Learning Path
The Bolting Specialist Qualification Program is designed to train and evaluate a bolter's ability to inspect, assemble, disassemble and tighten bolted joints in an effective and safe manner.

**LP108**
**Design and Analysis of Piping Systems and Operability Assessment of Nuclear Power Plant Components**
PDHs: 42  CEUs: 4.2  Format: Learning Path
Understand the design and analysis of piping systems and operability assessment of Nuclear Power Plant components consistent with ASME BPV Code, Section III and B311 and Section XI.

**LP103**
**Design for Additive Manufacturing with Metals Use Cases Package**
PDHs: 6  CEUs: 0.6  Format: Learning Path
Apply Additive Manufacturing design concepts with three common AM use cases: Replication, Adaptation, and Optimization.

**LP102**
**Design for Additive Manufacturing with Metals Professional Package**
PDHs: 20  CEUs: 2  Format: Learning Path
Discover Additive Manufacturing's role in the design of products, parts and components in ASME's Design for Additive Manufacturing with Metals Learning Path.

**LP104**
**Industrial Automation with Robotics**
PDHs: 14  CEUs: 1.4  Format: Learning Path
Determine if industrial automation with robotics is a viable technological solution to improve an existing industrial production process in ASME's Industrial Automation with Robotics Learning Path.

**LP105**
**Ethics and Communication for Engineers**
PDHs: 7  Format: Learning Path
Master critical communication skills and work through real world examples of ethical dilemmas for engineers in ASME's Ethics and Communication for Engineers Learning Path.
GUIDED STUDY COURSES

Online learning augmented with instructor-led activities and/or graded assignments to complete at your own pace. Courses run in 6-week sessions.

BUILD IN-DEMAND SKILLS AND LEARN HOW TO SOLVE REAL-WORLD CHALLENGES ON YOUR OWN SCHEDULE
EL505
Introduction to Geometric Dimensioning & Tolerancing (GD&T) Y14.5
PDHs: 23  CEUs: 2.3  Format: Guided Study
Learn introductory geometric dimensioning controls for mechanical engineering drawings per ASME Y14.5 Dimensioning and Tolerancing standard.

EL506
Advanced Geometric Dimensioning and Tolerancing (GD&T) Y14.5
PDHs: 23  CEUs: 2.3  Format: Guided Study
Gain advanced knowledge of geometric dimensioning controls for mechanical engineering drawings per the ASME Y14.5 Dimensioning and Tolerancing standard.

EL507
Introduction to Finite Element Analysis
PDHs: 23  CEUs: 2.3  Format: Guided Study
Explain and use introductory Finite Element Analysis (FEA) concepts underlying the creation of elements to make accurate approximations.

EL508
Advanced Finite Element Analysis
PDHs: 23  CEUs: 2.3  Format: Guided Study
Identify and demonstrate advanced Finite Element Analysis (FEA) skills including command-line input for Abaqus and design optimization in Abaqus.

EL501
ASME BPV Code, Section VIII, Division 1: Design & Fabrication of Pressure Vessels
PDHs: 23  CEUs: 2.3  Format: Guided Study
Learn the rules for pressure vessel design and construction, with an overview of the requirements of Section VIII, Division 1.

EL502
ASME BPV Code, Section VIII, Division 2: Design & Fabrication of Pressure Vessels
PDHs: 23  CEUs: 2.3  Format: Guided Study
Describe the use of alternative rules for the design and fabrication of pressure vessels given in ASME BPV Code, Section VIII, Division 2.

EL503
Overview of In-service Codes for Inspections, Repairs and Alterations of Pressure Equipment
PDHs: 15  CEUs: 1.5  Format: Guided Study
Understand the requirements of inspection, repairs and alterations of pressure equipment per NBIC, API-510, and API-579.

EL509
Computational Fluid Dynamics
PDHs: 23  CEUs: 2.3  Format: Guided Study
Gain an introduction to the principles and applications of CFD and apply the knowledge into use on commercial CFD codes, particularly ANSYS Fluent.

EL510
Two Phase Flow and Heat Transfer
PDHs: 23  CEUs: 2.3  Format: Guided Study
Gain a phenomenological understanding of two-phase flow and heat transfer in engineering processes and components and compute two-phase flow and heat transfer.

EL512
The Bolted Joint
PDHs: 23  CEUs: 2.3  Format: Guided Study
Learn the fundamentals of bolts and bolted joints, including their strength, behavior, design approaches and failure prevention.
EL515 Principles of Welding
PDHs: 23  CEUs: 2.3  Format: Guided Study
Understand introductory principles of welding technology, process of welding and how it affects welded materials and structures.

EL516 ASME BPV Code, Section IX: Welding & Brazing Qualifications
PDHs: 23  CEUs: 2.3  Format: Guided Study
Learn the layout, scope, and use of Section IX of the ASME Boiler and Pressure Vessel Code, rules for qualification of welding and brazing procedures and personnel.

EL511 Project Management for Engineers
PDHs: 23  CEUs: 2.3  Format: Guided Study
Learn engineering project management skills including planning and implementing projects, communication strategies and overcoming lack of resources and impediments.
SELF STUDY COURSES
100% online independent learning at your own pace. Learners can enroll and start at any time. Courses are accessible for 90 days.

GET FLEXIBLE PROFESSIONAL DEVELOPMENT ON TECHNICAL AND NON-TECHNICAL TOPICS
EL559  
ASME GD&T Fundamentals / ASME Y14.5 - 2018 Course (On Demand)  
PDHs: 12  CEUs: 1.2  Format: Self Study  
Read and create engineering drawings and interpret design intent per the latest version of ASME Y14.5 - Geometric Dimensioning and Tolerancing (GD&T) in this On Demand course.

EL560  
Drawing Interpretation  
PDHs: 23  CEUs: 2.3  Format: Self Study  
Understand basic mechanical two-dimensional engineering drawings, drawing elements, part and section views, dimensions, tolerances, finish and welding symbols.

ZABC73  
Y14.5-2018 Dimensioning and Tolerancing Overview  
PDHs: 3  Format: Self Study  
Overview of the contents and guidelines outlined in the ASME Y14.5 - 2009 Dimensioning and Tolerancing Standard

ZABC74  
PDHs: 2  Format: Self Study  
Introduction to ASME's Y14 Standards, which provide guidelines for engineering drawing sheet layout

AM210  
Design for Additive Manufacturing with Metals  
PDHs: 10  CEUs: 1  Format: Self Study  
Learn key foundational knowledge to design for Additive Manufacturing (AM) with metals.

AM214  
Additive Manufacturing Manufacturability: Laser Powder Bed Fusion  
PDHs: 4  CEUs: 0.4  Format: Self Study  
Prepare for part manufacturability with Laser Powder Bed fusion (L-PBF).

AM223  
Additive Manufacturing Material Properties  
PDHs: 5  CEUs: 0.5  Format: Self Study  
Understand materials properties for L-PBF parts including variability in material properties and how to account for this variability.

EL554  
Introduction to ASME BPV Code, Section VIII, Division 1 (On Demand)  
PDHs: 15  CEUs: 1.5  Format: Self Study  
Understand and apply ASME's BPV Code, Section VIII, Division 1 to pressure vessel design and construction in this On Demand course.

EL555  
Inspection, Repair, and Alterations of In-Service Pressure Equipment (On Demand)  
PDHs: 7  CEUs: 0.7  Format: Self Study  
Apply various requirements to the inspection, repair and alteration of in-service pressure vessels and equipment in this On Demand course.
EL548
Failure Prevention, Fitness-for-Service, Repair and Life Extension of Piping, Vessels and Tanks
PDHs: 14 CEUs: 1.4 Format: Self Study
Learn methods and criteria of ASME B31, ASME VIII, API 579-1, ASME FFS-1, ASME PCC-2, NBIC parts 2 and 3, to make run-or-repair decisions on pressure equipment, piping and pipelines.

ZABC17
Essentials - BPV Code, Section V: Nondestructive Examination
PDHs: 3 Format: Self Study
Learn about the various applications of ASME BPV, Section V - Nondestructive Examination (NDE).

ZABC59
Essentials - PCC-2 Repair of Pressure Equipment & Piping
PDHs: 3 Format: Self Study
Review the contents of ASME’s PCC-2 Standard, and learn about the repair of pressure equipment and piping.

ZABC9
ASME Boiler & Pressure Vessel Certification Process
PDHs: 3 Format: Self Study
Learn about ASME Conformity Assessment, the process for ASME Certification, and the requirements for obtaining non-nuclear Code Stamps.

ZABC15
ASME B31.3 Process Piping Code Overview (Online Course)
PDHs: 2 Format: Self Study
Introduction to the B31.3 Process Piping Code, how piping systems function and what the Code requirements are for various types of installations.

ZABC12
Essentials - B31.8 Gas Transmission and Distribution Piping Systems
PDHs: 2 Format: Self Study
Overview of the scope of B31.8, including its history, the types of systems to which it applies, its organization, and the intended use of the Code.

EL549
ASME BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components
PDHs: 27 CEUs: 2.7 Format: Self Study
Understand ASME Section XI rules for in-service inspection, maintenance, testing, and the regulatory requirements of nuclear power plant components.

EL551
Nuclear Piping Systems ASME BPV Code, Section III and B31.1: Design, Integrity-Operability Assessment, and Repairs
PDHs: 15 CEUs: 1.5 Format: Self Study
Apply ASME Section III Division 1, Subsections NB/NC/ND to the design, analysis, and qualification of nuclear power plant piping systems in this On Demand course.
Review practical application of NQA-1 focusing on five of the principal requirements.

Overview of the ASME NQA-1 Nuclear Quality Assurance Standard and an in-depth look at Part I.

Introduction to pumps – the way they work, different types, and some basic applications.

Overview of the considerations involved when choosing the appropriate valves for a system.

Review the fundamental nature of gas turbine engines and the processes that affect their performance.

Renew your ASME Qualified Bolting Specialist Certificate every 3 years in accordance with ASME’s PCC-1 Guideline.

Introduction to standards: why we have them, the process for creating them, and who is responsible for maintaining them.

Learn techniques to cater your technical documents to a broad audience.

Review the professional code of ethics that shapes engineering principles and identify your ethical concerns.

Learn how this ASME BPE Standard has improved the manufacturing practices of the bioprocessing and pharmaceutical industries.
IAR211
Fundamentals of Industrial Automation
PDHs: 2  CEUs: 0.2  Format: Self Study
Understand the techniques used in industrial automation with robotics and make suggestions for appropriate types of robotics hardware.

IAR212
6 Axis Robot Arm
PDHs: 2  CEUs: 0.2  Format: Self Study
Learn key foundational knowledge, specifications, requirements, and operations of 6 Axis robot arms.

RB210
Assessing Suitability for Robotics in Manufacturing: A Case Study
PDHs: 10  CEUs: 1  Format: Self Study
Review, select, and plan the successful integration of a robot to automate a portion of an industrial process through a real-world case study.
Learn more about how we can help you achieve your workforce development goals:

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