ASME LEARNING & DEVELOPMENT

CORPORATE TRAINING COURSE CATALOG 2026-2027

Live and On Demand courses
from top engineering experts



ASME®
SETTING THE STANDARD

ASME LEARNING & DEVELOPMENT

Training for Engineering Transformation

For over 100 years, engineers around the world have trusted ASME to deliver industry-consensus standards. Now, a growing number of companies from a broad spectrum of sectors are trusting ASME with their technical and management training.

Join leading manufacturers, contractors and service providers from aerospace & defense, energy & utilities, automotive, electronics & consumer goods, and other industries when you choose ASME for your corporate training needs.

Align your engineering and compliance personnel with training on ASME standards, including:

- Y14.5 Geometric Dimensioning & Tolerancing
- B31.3 Process Piping
- BPVC Section VIII Rules for Construction of Pressure Vessels
- FFS-1 Fitness-for-Service
- NQA-1 Quality Assurance Requirements for Nuclear Facility Applications
- BPVC Section III Rules for Construction of Nuclear Facility Components
- B31.8 Gas Transmission and Distribution Piping Systems
- BPVC Section IX-Welding, Brazing, and Fusing Qualifications

Get expert guidance on essential engineering skills and concepts

- Drawing interpretation
- Welding
- Finite Element Analysis (FEA)
- Fracture mechanics
- Computational Fluid Dynamics
- Root Cause Analysis
- Shock and vibration design and analysis
- Bolting assembly and inspection

Retain top talent and provide career advancement with business training on:

- TRIZ: The Theory of Inventive Problem Solving
- Agile Project Management
- Technical writing
- Ethics and communication for engineers

Help your engineering teams learn skills that they can apply in their day-to-day work. ASME offers courses relevant to:

- Mechanical engineers
- QA/QC engineers
- Design engineers
- CAD engineers
- Process engineers
- R&D engineers
- Structural engineers
- Project Managers

Learn as a team to succeed as a team.

Get your engineering teams aligned to reduce waste, deliver projects on time, and stay up to date with the latest innovations in your industry.

Schedule training that works for your company calendar

- Train groups in half-day rotations to keep your projects in flight and learn while you earn

Hands on, in person training

- Bring our expert instructor on site to your facility

Customize course content

- Work with our learning experts and instructors to include your team's use cases in course modules

Get a quote for ASME Corporate Training

If you have a group of 10 engineers or more, contact learningsolutions@asme.org to get a quote for ASME Corporate Training.

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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.

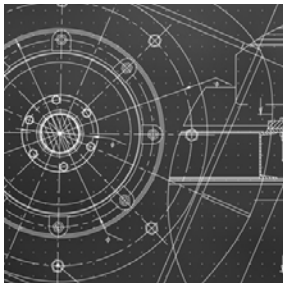
ASME Virtual Classroom delivers an enhanced online learning experience with:

- 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

All Virtual Classrooms are available In Person for Corporate Training customers.

"THE COURSE MATERIAL, INSTRUCTOR, AND MODERATOR WERE EXCELLENT"

GEOMETRIC DIMENSIONING & TOLERANCING VIRTUAL CLASSROOM



Geometric Dimensioning and Tolerancing (GD&T) Fundamentals

Read and create engineering drawings and interpret design intent per ASME Y14.5 - Geometric Dimensioning and Tolerancing (GD&T).



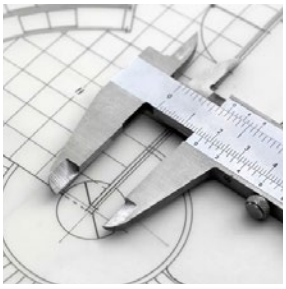
Geometric Tolerancing (GD&T) Applications and Tolerance Stacks

Apply Geometric Dimensioning and Tolerancing (GD&T) to your designs and perform tolerance stacks through authentic case studies.



ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) Design and Applications Combo Course

Gain a comprehensive understanding of Geometric Dimensioning and Tolerancing (GD&T) and apply it to your designs and stacks per ASME Y14.5.



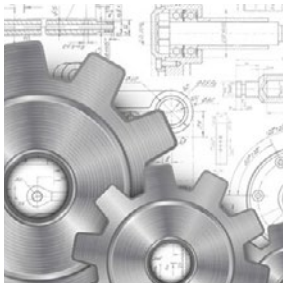
Geometric Dimensioning and Tolerancing (GD&T) for Quality, Inspection and Reporting

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.



Geometric Dimensioning & Tolerancing (GD&T) Comprehensive Fundamentals

GD&T Comprehensive Fundamentals is an intense immersion into the rules, symbols, and other concepts of ASME Y14.5-2018



Fundamentals of Geometric Dimensioning and Tolerancing (GD&T) (ASME Y14.5-2009 GD&T Professional (GDTP) - Technologist Level)

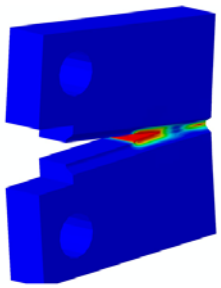
Acquire skills and knowledge through training in this GD&T course per the ASME Y14.5 Standard

DESIGN, MATERIALS & ANALYSIS VIRTUAL CLASSROOM



Advanced Geometric Dimensioning and Tolerancing & Introduction to Stacks Analysis

This virtual course pairs an in-depth look at the concepts in the ASME Y14.5-2009 standard with practical application and real-world examples.



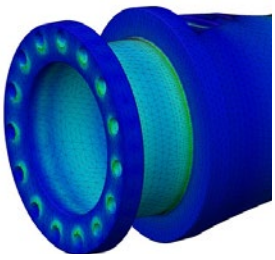
Fracture Mechanics

Gain a practical understanding of fatigue and fracture calculations using the latest methodologies, including weight functions and the FAD approach



Applied Shock and Vibration Analysis and Design

Learn how to compute natural frequencies and response to dynamic forces, and designs to reduce vibration of new and existing systems.



Introduction to Finite Element Analysis (FEA)

Explain and use introductory Finite Element Analysis (FEA) concepts underlying the creation of elements to make accurate approximations.

BOILERS & PRESSURE VESSELS VIRTUAL CLASSROOM



Pressure Relief Devices: Design, Sizing, Construction, Inspection & Maintenance

Understand the design, construction, installation, operation, inspection and maintenance of pressure relieving devices.



API 579-1/ASME FFS-1 Fitness for Service

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



ASME BPV Code, Section VIII, Division 1: Design and Construction

Understand and apply ASME's BPV Code, Section VIII, Division 1 to pressure vessel design and construction.



Inspection, Repair and Alterations of In-Service Pressure Equipment

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



ASME BPV Code, Section VIII, Division 1: Pressure Vessel Combo Course

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



Pump Fundamentals: Design, Application, and Operation of Centrifugal, Reciprocating, and Rotary Pumps

Learn Pump Fundamentals including the design application & operation of centrifugal, reciprocating & rotary pumps



ASME/API Boilers and Fired Pressure Equipment Operation and Maintenance

Gain knowledge of boiler operation and maintenance per the requirements of ASME BPVC Sections I, III, IV, VI, VII, and VIII.



Boilers and Fired Pressure Equipment Inspection, Repairs, and Alterations Industry Best Practices

Gain knowledge of boiler inspection and methods for repairs and alterations in compliance with ASME BPV, NBIC and API regulations.

PIPING & PIPELINES VIRTUAL CLASSROOM



ASME BPVC, API and NBIC Boiler Operation, Maintenance, Inspection, Repairs, and Alterations Combo Course

Comply with BPVC codes to safely operate and maintain boilers throughout their lifecycle from operation & inspection to repairs & alterations.



ASME B31.8 Gas Transmission & Distribution Piping Systems

Gain an understanding of ASME B31.8 including design, operation, maintenance, and repair of natural gas distribution and transmission pipelines.



ASME B31.1 Power Piping - Materials, Fabrication Examination, Testing, & Maintenance

Explore the background and meet the requirements of ASME B31.1 focusing on power piping construction and maintenance.



ASME B31.3 Process Piping Code

Apply the requirements of ASME B31.3 to the design, analysis, materials, fabrication, testing and inspection of process piping systems.



ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids

Adhere to principles of ASME B31.4 Code for the design, construction, and operation of liquid pipeline systems while minimizing risks.



ASME B31.3 Process Piping, Materials Fabrication, Examination, and Testing

Gain project management insights and learn to apply project management methods to your career as an engineer with this virtual classroom course.



ASME B31.1 Power Piping Design

Understand and apply the ASME B31.1 requirements to power piping system design and analysis including criteria, requirements and failure modes.



ASME B31.3 and B31.1 Practical Piping Design for Process and Power Applications

Apply the requirements of B31.3 and B31.1 to the design, analysis, materials, fabrication, testing, and inspection for process and power piping systems.



ASME B31 Code Application: Piping and Pipeline Systems, Fabrication, Design, and Post-construction Training

This foundational course introduces the engineering principles and code requirements essential for post-construction of industrial piping systems and transmission pipelines.



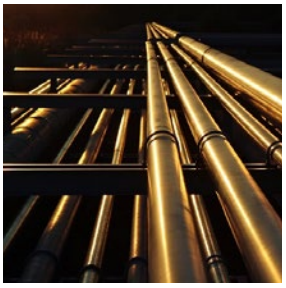
ASME B31.3 Process Piping Design

Understand and apply the ASME B31.3 Process Piping requirements to effectively and safely design process piping systems.



Fundamentals of Process Plant and Plant Layout

Learn the fundamentals of process plant and plant layout, including process flow diagrams, equipment layouts, and P&IDs with this comprehensive guide.



Fundamentals of Piping, Pipeline Engineering, and Pigging Systems

Master the Fundamentals of piping & pipeline engineering and pigging systems by taking ASME's professional course, from design to construction to operation.

FLUIDS & HEAT TRANSFER VIRTUAL CLASSROOM



Flow-Induced Vibration with Applications to Failure Analysis

Learn and apply the latest design and analysis tools for the prediction and prevention of vibration in structures exposed to high energy fluid flow.



Failure Prevention, Fitness-for-Service, Repair and Life Extension of Piping, Vessels and Tanks

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



Design-by-Stress Analysis per ASME BPV Code, Section III, Division 1: Class 1, 2 and 3 Components

Apply Appendix XIII Design by Stress Analysis per Section III, Division 1 to vessels, pumps, valves and piping in nuclear power plants.



ASME BPV Code Section III, Division 1: Rules for Construction of Nuclear Facility Components and USNRC Regulations

Explore Section III, Division 1, how it interfaces with other BPVC sections, and how it is implemented by the US NRC in its regulations.

NUCLEAR VIRTUAL CLASSROOM



Nuclear Piping Systems ASME BPV Code, Section III and B31.1: Design, Integrity-Operability Assessment, and Repairs

Apply ASME Section III, Division 1, Subsections NB/NC/ND to the design, analysis, and qualification of nuclear power plant piping systems.



ASME BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components

Understand ASME Section XI rules for in-service inspection, maintenance, testing, and requirements of nuclear power plant components.



ASME NQA-1 Lead Auditor Training

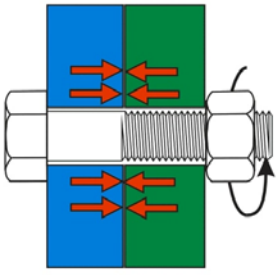
Review auditing program methods and techniques to conduct audits of nuclear quality assurance programs per ASME NQA-1 and N45.2.23 auditors.



ASME NQA-1 Requirements for Computer Software used in Nuclear Facilities

Learn to apply NQA-1 to the practice of developing, using, maintaining or procuring software used in nuclear facilities.

BOLTING VIRTUAL CLASSROOM



Bolted Joint Assembly Principles Per ASME PCC-1-2022

Identify the principles of joint design, assembly, and reliability per ASME PCC-1 2022



Design of Bolted Flange Joints

Understand and apply ASME codes and standards for bolted flange joints, specifically flange design for pressure vessels and piping.

BOLTING VIRTUAL CLASSROOM



ASME PCC-1 Bolted Joints and Gaskets Design, Assembly, and Reliability Combo Course.

Master bolted joints and gasket design, behavior and assembly principles per ASME PCC-1 2022.



Bolted Joints and Gasket Behavior

Understand bolted joint fundamentals and gasketed joint torque factors, bolting patterns, and gasket behavior, tightness, selection and specification.



Bolted and Gasket Joint Fundamentals Combo Course

Build your bolted and gasket joint skills and increase your knowledge of ASME PCC-1 applications in this virtual classroom course combo.

WELDING & BRAZING VIRTUAL CLASSROOM



Practical Welding Technology

Understand welding technology, including applicable codes and standards, principles, procedures, symbols, material selection and preheat.



ASME BPV Code, Section IX: Welding, Brazing, & Fusing Qualifications

Comply with the requirements of ASME Section IX rules for qualification of welding and brazing procedures and personnel.



Applications of Welding

Build foundational welding skills in this comprehensive Applications of Welding course.

MANAGEMENT, LEADERSHIP & INNOVATION VIRTUAL CLASSROOM



Project Management for Engineers and Technical Professionals

Apply key PMI project management concepts, including big-picture thinking, repeatable processes, and increased efficiency.



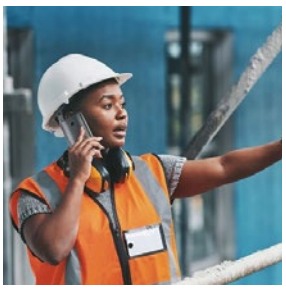
Leadership Strategic Communication for Engineers

Strategic Communications for engineers teaches mechanical engineering professionals to think strategically, build alignment, and present ideas with clarity.



TRIZ: The Theory of Inventive Problem Solving

Create breakthrough innovations by leveraging patterns documented in the world's most inventive patents with TRIZ.



The Engineering Manager: Engaging Today's Workforce

Implement essential management skills, tackle common challenges engineering managers encounter and reach high levels of performance.



Agile Project Management

Build critical knowledge of Agile guidelines from PMI / PMBOK, including hitting results in minimum time and the “fail fast” mantra.



Traditional and Agile Project Management for Engineers and Technical Professionals Combo Course

Learn both traditional and agile project management methodologies and gain a robust skillset for every engineering project or situation.



Problem-solving for Engineers: Root Cause Analysis Fundamentals

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

MICROCREDENTIALS

Sequenced skills-based courses that lead to recognized credentials.

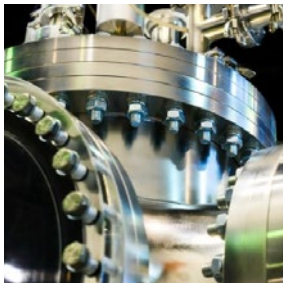
TURN LEARNING INTO PROOF

ASME Microcredentials help engineers and technical professionals build practical, job-ready skills in focused subject areas. Designed for busy professionals, these flexible learning experiences combine targeted instruction, real-world application, and assessments that validate learning.

Whether you're developing expertise in a new area, strengthening existing capabilities, or preparing for greater responsibility, ASME Microcredentials provide a structured pathway to demonstrate progress and showcase your achievements.

Earn a digital badge, share your accomplishment with employers and colleagues, and continue building your expertise through additional learning pathways and credentials.

BOLTING SELF STUDY



ASME PCC-1 Level 1 Bolting Assembler Fundamentals

ASME PCC-1 Level 1 Bolting Assembler Fundamentals is designed to train & evaluate a bolter's ability to inspect & assemble bolted joints effectively & safely.



ASME PCC-1 Level 2 Bolting Assembler Fundamentals

ASME PCC-1 Level 2 Bolting Assembler Fundamentals is designed to train & evaluate a bolter's ability to inspect & assemble bolted flange joints effectively & safely.



ASME PCC-1 Level 3 Bolting Assembler Fundamentals

Learn concepts related to manual tightening for bolted flange joints and pre, in-process, and post assembly quality assurance per ASME PCC-1 Appendix A.



ASME PCC-1 Level 4 Bolting Assembler Fundamentals

Learn to develop procedures and provide detailed guidance to bolted flange joint programs and activities.

PIPING & PIPELINES SELF STUDY



ASME B31 Code Application: Piping and Pipeline Systems – Code Design

This foundational microcredential introduces the engineering principles and code requirements essential for the design of piping systems and transmission pipelines.



ASME B31 Code Application: Piping and Pipeline Systems – Materials and Construction

Discover how to apply ASME B31 codes for safe pipeline construction. This course covers materials, welding, examination, and pressure testing strategies.



ASME B31 Code Application: Piping and Pipeline Systems – Post Construction

This micro-credential provides a comprehensive, practice-oriented exploration of post-construction activities, including risk-based inspection planning, fitness-for-service assessments, and the selection and implementation of repair strategies.

DESIGN FOR SUSTAINABILITY SELF STUDY



Design for Sustainability Part 1: Goals and Metrics

Turn sustainability into actionable design decisions. Learn life-cycle thinking, key frameworks, and fast LCA to set measurable goals, evaluate trade-offs, and make evidence-based decisions.



Design for Sustainability Part 2: Technical Strategies

Improve product sustainability and circularity across the entire life cycle with practical engineering strategies spanning materials, manufacturing, transport, use, product longevity, and end-of-life.



Design for Sustainability Part 3 – Business & Social Strategies

This course equips you with the tools to build support for your sustainability work and aligning your design decisions with organizational goals and constraints.

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

BOILERS & PRESSURE VESSELS LEARNING PATH



ASME BPV Code, Section VIII, Division 1: Pressure Vessel

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



Design, Fabrication and Fitness-for Service of Pressure Equipment

Design, Fabrication, & Understand the Design, Fabrication, & Fitness-for Service of Pressure Equipment requirements via ASME's on-demand Learning Path via ASME's Learning Hub.



ASME Codes and Standards Overview

Learn about ASME Codes & Standards in this self-paced learning path. Gain the knowledge to work with ASME Codes & Standards in your respective fields.



ASME BPV Code, Section VIII, Divisions 1 and 2

Learn & adapt the principles of ASME BPV Code, Section VIII: Divisions 1 & 2 with ASME's online learning path. Get a great learning experience with ASME courses.

GEOMETRIC DIMENSIONING & TOLERANCING LEARNING PATH



ASME Y14.5 Geometric Dimensioning and Tolerancing (GD&T) Fundamentals

This ASME Geometric Dimensioning and Tolerancing (GD&T) Learning Path consisting of 3 On Demand courses where students learn read and create engineering drawings and interpret design intent per ASME Y14.5.

BOLTING LEARNING PATH



Bolted and Gasket Joint Fundamentals Combo Course

Access all four levels of ASME's Bolted Flange Joint Assembly Program

WELDING & BRAZING LEARNING PATH



Metallurgy Training for Non-Metallurgists

Learn to engineer metals by modifying strength and hardness, evaluate steel microstructure for optimal mechanical properties, perform metallurgical failure analysis, and apply strategies to assess and improve corrosion resistance.

NUCLEAR LEARNING PATH



Design and Analysis of Piping Systems and Operability Assessment of Nuclear Power Plant Components

Understand the design and analysis of piping systems and operability assessment of Nuclear Power Plant components consistent with ASME BPV Code, Section III and B31.1 and Section XI.

PIPING & PIPELINES LEARNING PATH



ASME B31 Process and Power Piping Design

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.



ASME B31 Code Application: Piping and Pipeline Systems

This learning path includes all three parts of the ASME B31 Code Application: Piping and Piping Systems microcredential. Each is designed to guide deep learning in the ASME B31 family of codes and how they apply to piping engineering and piping systems.

PIPING & PIPELINES LEARNING PATH



Process Piping, Welding, Brazing, and Fusing

Understand the requirements of ASME B31.3 Process Piping Code for analysis, testing & inspection of process piping systems and BPVC Section IX - Welding, Brazing, and Fusing Qualifications.

ROBOTICS LEARNING PATH



Industrial Automation with Robotics

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.

ENGINEERING WORKPLACE ESSENTIALS LEARNING PATH



Ethics and Communication for Engineers

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.



Innovative Problem Solving for Engineers

This learning path is designed to equip you to identify and resolve problems using Theory of Inventive Problem Solving (TRIZ) and Root Cause Analysis (RCA).

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

GEOMETRIC DIMENSIONING & TOLERANCING GUIDED STUDY



Introduction to Geometric Dimensioning & Tolerancing (GD&T) - Y14.5

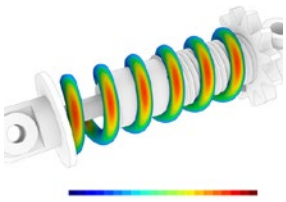
Learn introductory geometric dimensioning controls for mechanical engineering drawings per ASME Y14.5 Dimensioning and Tolerancing standard.



Advanced Geometric Dimensioning and Tolerancing (GD&T) - Y14.5

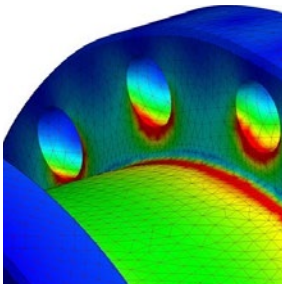
Gain advanced knowledge of geometric dimensioning controls for mechanical engineering drawings per the ASME Y14.5 Dimensioning and Tolerancing standard.

DESIGN, MATERIALS & ANALYSIS GUIDED STUDY



Introduction to Finite Element Analysis

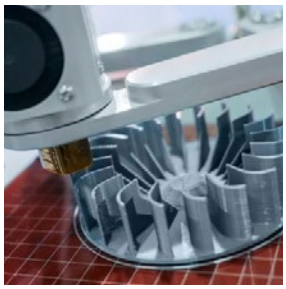
Explain and use introductory Finite Element Analysis (FEA) concepts underlying the creation of elements to make accurate approximations.



Advanced Finite Element Analysis

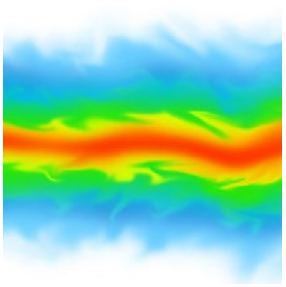
Identify and demonstrate advanced Finite Element Analysis (FEA) skills including command-line input for Abaqus and design optimization in Abaqus

FLUIDS & HEAT TRANSFER GUIDED STUDY



Realizing the Value of Metal Additive Manufacturing

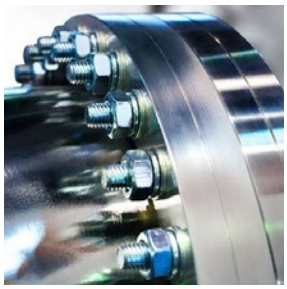
Master the fundamentals of Metal AM and learn to evaluate, replicate, adapt, and optimize parts for cost, performance, and efficiency across real-world use cases.



Introduction to Computational Fluid Dynamics

Gain an introduction to the principles and applications of CFD and apply the knowledge into use on commercial CFD codes, particularly ANSYS Fluent.

BOLTING GUIDED STUDY



The Bolted Joint

Learn the fundamentals of bolts and bolted joints, including their strength, behavior, design approaches and failure prevention.

WELDING & BRAZING GUIDED STUDY



Principles of Welding

Understand introductory principles of welding technology, process of welding and how it affects welded materials and structures.

MANAGEMENT, LEADERSHIP & INNOVATION GUIDED STUDY



Project Management for Engineers

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.

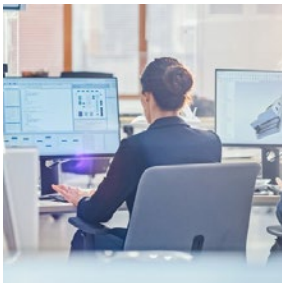
GET FLEXIBLE PROFESSIONAL DEVELOPMENT ON TECHNICAL TOPICS AND PROJECT MANAGEMENT

GEOMETRIC DIMENSIONING & TOLERANCING SELF STUDY



Y14.5-2018 Dimensioning and Tolerancing (GD&T) Overview

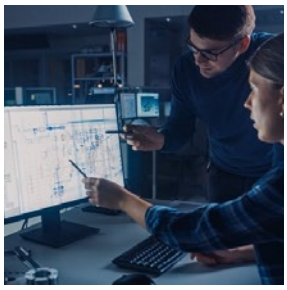
Overview of the contents and guidelines outlined in the ASME Y14.5 - 2018 Dimensioning and Tolerancing Standard.



ASME Y14.5-2018 – GD&T Fundamentals

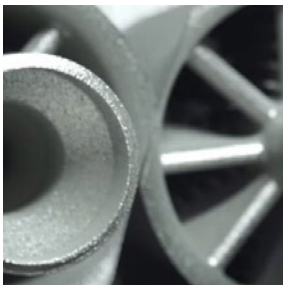
Read and create engineering drawings and interpret design intent per the latest version of ASME Y14.5 - Geometric Dimensioning and Tolerancing (GD&T) in this On Demand course.

DESIGN, MATERIALS & ANALYSIS SELF STUDY



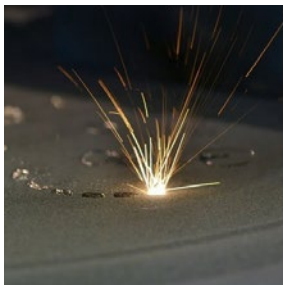
Drawing Interpretation (GD&T)

Understand basic mechanical two-dimensional engineering drawings, drawing elements, part and section views, dimensions, tolerances, finish and welding symbols.



AM Manufacturability: Laser Powder Bed Fusion

Prepare for part manufacturability with Laser Powder Bed fusion (L-PBF).



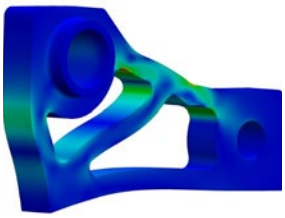
Additive Manufacturing Material Properties

Understand materials properties for L-PBF parts including variability in material properties and how to account for this variability.



Design for Additive Manufacturing with Metals

Learn key foundational knowledge to design for Additive Manufacturing (AM) with metals.



Fracture Mechanics

Gain project management insights and learn to apply project management methods to your career as an engineer with this online course.



Solar Technology Design

This course offers a comprehensive exploration of solar technology, covering fundamental concepts and practical applications.



Additive Manufacturing Design Advantages & Limitations

ASME's on-demand course covers the fundamental aspects of design for additive manufacturing (DfAM) and the mindset needed to design this way.



Design for Sustainability Part 1: Goals & Metrics

Turn sustainability into actionable design decisions. Learn life-cycle thinking, key frameworks, and fast LCA to set measurable goals, evaluate trade-offs, and make evidence-based decisions.

DESIGN, MATERIALS & ANALYSIS SELF STUDY



Design for Sustainability Part 2: Technical Strategies

Improve product sustainability and circularity across the entire life cycle with practical engineering strategies spanning materials, manufacturing, transport, use, product longevity, and end-of-life.



Design for Sustainability Part 3 – Business & Social Strategies

This course equips you with the tools to build support for your sustainability work and aligning your design decisions with organizational goals and constraints.

BOILERS & PRESSURE VESSELS SELF STUDY



ASME BPV Code, Section VIII, Division 2: Design & Fabrication of Pressure Vessels

Understand and use the alternative rules for the design and fabrication of pressure vessels per Section VIII, Division 2 in this On Demand Course.



API 579-1/ASME FFS-1 Fitness-For-Service Evaluation

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



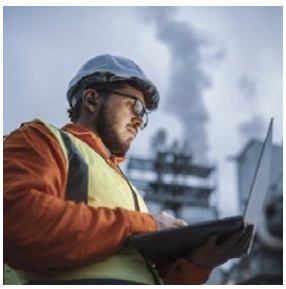
ASME BPV Code, Section V: Nondestructive Examination Overview

Learn about the various applications of ASME BPV, Section V - Nondestructive Examination (NDE).



ASME PCC-2 Repair of Pressure Equipment & Piping Overview

Review the contents of ASME's PCC-2 Standard, and learn about the repair of pressure equipment and piping.



Inspection, Repair, and Alterations of In-Service Pressure Equipment

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



Introduction to ASME BPV Code, Section VIII, Division 1

Understand and apply ASME's BPV Code, Section VIII, Division 1 to pressure vessel design and construction in this On Demand course.



ASME Boiler & Pressure Vessel Certification Process

Learn about ASME Conformity Assessment, the process for ASME Certification, and the requirements for obtaining non-nuclear Code Stamps



Pressure Relief Devices: Design, Sizing, Construction, Inspection & Maintenance

Gain a comprehensive overview of the design, construction, installation, operation, inspection and maintenance of pressure relieving devices.



ASME/API Boilers and Fired Pressure Equipment Operation and Maintenance

This On Demand course covers boiler inspection and methods for repairs and alterations in compliance with ASME BPV, NBIC, and API regulations.



ASME B31.8 Gas Transmission and Distribution Piping Systems Overview

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



ASME B31.3 Process Piping Code

Understand requirements of the ASME B31.3 Process Piping Code for the analysis, testing & inspection of process piping systems in this on-demand training.



ASME B31.12 Hydrogen Piping and Pipelines

This introductory course will provide participants with an overview of the ASME B31.12 code, including its structure and the scope of its main sections.



ASME B31 Code Application: Piping and Pipeline Systems – Post Construction

This micro-credential provides a comprehensive, practice-oriented exploration of post-construction activities, including risk-based inspection planning, fitness-for-service assessments, and the selection and implementation of repair strategies.



ASME B31.3 Process Piping Code Overview (Online Course)

Introduction to the B31.3 Process Piping Code, how piping systems function and what the Code requirements are for various types of installations.



ASME B31.1 Power Piping Code Overview (Online Course)

Introduction to the B31.1 Power Piping Code, and its relationship with ASME BPV Code, Section I



ASME B31.8 Gas Transmission & Distribution Piping Systems

B31.8 Gas Transmission & Distribution Piping Systems on-demand course covers ASME Code B31.8, including piping code provisions, principal intentions, & usage.



ASME B31 Code Application: Piping and Pipeline Systems – Materials and Construction

Discover how to apply ASME B31 codes for safe pipeline construction. This course covers materials, welding, examination, and pressure testing strategies.



ASME B31.8S Managing the Integrity of Natural Gas Pipelines

Master ASME B31.8S standards with on-demand course & build an effective Integrity Management Program (IMP) for gas pipelines with the help of industry experts

PIPING & PIPELINES SELF STUDY



Advanced ASME B31.12 Hydrogen Piping and Pipelines

This comprehensive course provides an overview of the ASME B31.12 Code as it relates to the design and construction of hydrogen piping and pipeline systems.



ASME B31 Code Application: Piping and Pipeline Systems – Code Design_

This foundational microcredential introduces the engineering principles and code requirements essential for the design of piping systems and transmission pipelines.

NUCLEAR SELF STUDY



NQA-1 Practical Application

Review practical application of NQA-1 focusing on five of the principal requirements.



Nuclear Piping Systems ASME BPV Code, Section III and ASME B31.1: Design, Integrity-Operability Assessment, and Repairs

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.



NQA-1 Part 1 – 18 QA Requirements

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



Failure Prevention, Fitness-for-Service, Repair and Life Extension of Piping, Vessels and Tanks

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

BOLTING SELF STUDY



ASME BPV Code, Section XI: Inservice Inspection of Nuclear Power Plant Components

Understand ASME Section XI rules for in-service inspection, maintenance, testing, and the regulatory requirements of nuclear power plant components.



ASME PCC-1 Level 1 Bolting Assembler Fundamentals

ASME PCC-1 Level 1 Bolting Assembler Fundamentals is designed to train & evaluate a bolter's ability to inspect & assemble bolted joints effectively & safely.



ASME PCC-1 Level 2 Bolting Assembler Fundamentals

ASME PCC-1 Level 2 Bolting Assembler Fundamentals is designed to train & evaluate a bolter's ability to inspect & assemble bolted flange joints effectively & safely.



ASME PCC-1 Level 3 Bolting Assembler Fundamentals

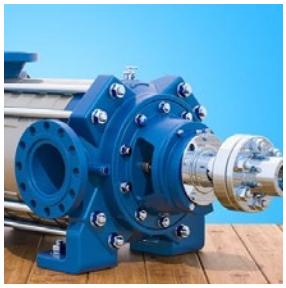
Learn concepts related to manual tightening for bolted flange joints and pre, in-process, and post assembly quality assurance per ASME PCC-1 Appendix A.

BOLTING SELF STUDY



ASME PCC-1 Level 4 Bolting Assembler Fundamentals

Learn to develop procedures and provide detailed guidance to bolted flange joint programs and activities.



Introduction to the Selection of Pumps

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



Applied Fluid Movement: Pumps, Piping, Fans, and Ducts

Unlock the fundamentals of Applied Fluid Movement: master fluid transport in piping and duct systems, pump and fan performance analysis, all at your own pace.

BIOPROCESS SELF STUDY



Bioprocessing Equipment (BPE) Overview

Learn how this ASME BPE Standard has improved the manufacturing practices of the bioprocessing and pharmaceutical industries.

RISK & RELIABILITY SELF STUDY



Overview of QPS (Quality Program for Suppliers) General Industry

Understand the requirements that are needed to complete QPS (Quality Program for Suppliers) Certification. Enhance your skills & knowledge with ASME eLearning.

FLUIDS & HEAT TRANSFER SELF STUDY



Introduction to the Selection of Valves

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



Hydraulic Design and Surge Fundamentals

This course provides an examination of fluid properties and their impact on piping and pipeline systems design.

WELDING & BRAZING SELF STUDY



ASME BPV Code, Section IX: Welding, Brazing, & Fusing Qualifications

Learn about ASME's BPV Code Section IX welding, brazing & fusing qualifications with ASME e-learning. Enroll now to advance your skills and expertise.

GAS TURBINES SELF STUDY



Basic Gas Turbine Engine Technology

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



Principles of Metallurgy

Learn more about Principles of Metallurgy in this on-demand course. Enhance skills in metal strength, alloying, and heat

RISK & RELIABILITY SELF STUDY



Metal Failure Analysis

Advance your engineering skills with our self-paced Metal Failure Analysis course and in-depth overview of metallurgical evaluation techniques.



Asset Maintenance and Reliability

This asset maintenance and reliability course is designed to equip you with practical strategies to optimize equipment performance and extend asset lifecycles.



Corrosion of Metals

Gain a practical foundation in corrosion science, including electrochemical reactions, corrosion cells, and seven common metal corrosion mechanisms.



Steel Metallurgy

Learn steel metallurgy basics, including how carbon content and heat treatment affect microstructure, hardness, strength, and toughness.

ROBOTICS SELF STUDY



Assessing Suitability for Robotics in Manufacturing: A Case 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.



Six Axis Robot Arm

Learn key foundational knowledge, specifications, requirements, and operations of 6 Axis robot arms.



Fundamentals of Industrial Automation

Understand the techniques used in industrial automation with robotics and make suggestions for appropriate types of robotics hardware.

MANAGEMENT, LEADERSHIP & INNOVATION SELF STUDY



Project Management for Engineers and Technical Professionals

Gain project management insights and learn to apply technical project management methods to your career as an engineer with this online course.



TRIZ: The Theory of Inventive Problem Solving

Learn TRIZ: the Theory of Inventive Problem Solving with ASME. Leverage this approach to innovation to help you discover breakthrough solutions to problems.



Effective Writing for Engineers

The course explores the science behind readable documents and the purposeful use of language to produce clear, concise engineering writing.



Problem-solving for Engineers: Root Cause Analysis Fundamentals

Explore root cause analysis fundamentals and tools while learning to apply root cause analysis to real-world problems.



Ethics for Engineers: Doing the Right Thing When No One is Looking

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



Technical Writing for Engineers: Giving Readers What They Need

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



Introduction to ASME Standards & Certification

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



Agile Project Management

This course covers the basics of Agile project management methods with a technical and engineering approach.



Making Better Decisions: Tools for Decisions with Multiple Objectives

In this course, students learn to use a systematic process to organize information and analyze decisions with multiple objectives.

IN PERSON LEARNING

In Person learning is available for individuals and teams. To register for in person courses for your personal professional development please visit **go.asme.org/inperson**

To learn more about getting in person training for your team, contact **learningsolutions@asme.org** or visit **go.asme.org/corporatetraining**

LEARN HOW WE CAN HELP YOU ACHIEVE YOU ACHIEVE DEVELOPMENT GOALS:

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