

W. M. HUITT CO. ONLINE TRAINING COURSE - MODULE III

CODES AND STANDARDS 90 Minute Course Schedule

Course Description: This course will provide the novice or experienced Pipe Designer and CAD Operator with the broad, but specific information they need to perform their job more efficiently and effectively. It will provide plant maintenance personnel with a better understanding of regulatory compliance, how regulations come about, the difference between a code and a standard, are you required to follow code, are you required to follow standards, and what codes and standards apply to your situation. Mechanical, Process, and Utility Engineers will get the information they need to better understand the application of codes and standards and how specific codes and standards apply.

Who Should Attend: This course is useful to the CAD operator with very little experience in piping design to the experienced piping designer who needs to gain more knowledge with Code and standard application. This course benefits plant maintenance personnel who work with pipelines. It is also of benefit to mechanical, process, and utility engineers who need to gain more detailed knowledge with the various aspects when and where codes and standards apply.

Abstract of the 90 Minute Course Agenda

This course provides the designer, maintenance personnel, and engineer with the basis for understanding industry requirements for Code compliance and the application of industry standards. It will discuss such things as a brief history of codes, what roll government plays, what roll industry plays, how codes and standards are developed and maintained, and how codes and standards are initiated. Material Standards (ASTM), Manufacturing Standards (ASTM, ASME, MSS), and Government Regulations will be covered including their relationship with the Code of Federal Regulations (CFR), and how they affect the specifications and design requirements of a project or an installed system.

Also covered will be a discussion as to how industry Codes and Standards are integrated into project specifications and how these codes and standards are harmonized. The attendee will learn what specifications and guidelines are required for a project, what information is required in those documents, and how to develop them.



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- I. CFR and USC Government regulations
- II. Understanding CFR's, USC's, Industry Codes, Industry Standards, and Guidelines
- III. How Government Regulations and Industry Standards are sometimes connected
- IV. The difference between a Code and a Standard
- V. Where does ANSI fit in
- VI. Deciding which Code you need to comply with on your project
 - a. Can a project have multiple piping codes & standards?
 - b. Is there a concern with conflict between codes & standards
 - c. State regulations
- VII. Evolution of the Boiler Code
- VIII. What is an American National Standards (ANS) Developer?
- IX. ASME
- X. MSS Standards
 - a. When to apply them
- XI. API Standards
 - a. API publications carry prefixes such as RP, Spec, Bull, TR, Std, and Publ
 - b. What do they mean?
 - c. Do any of the above API publications require compliance in design and/or construction?
- XII. AWWA and CGA
- XIII. ASTM Standards
 - a. What is the difference between a Product Specification and a General Requirements Specification?
- XIV. Guidelines
 - a. CSI
 - b. ISPE
 - c. API
- XV. Harmonization

END OF COURSE