

I. COURSE DESCRIPTION:

Department Information:

Division: Technical
Department: Welding
Course ID: INSPEC 015B
Course Title: Advanced Construction Inspection: Uniform Plumbing Code
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite/Corequisite: INSPEC 012

Catalog and Schedule Description:

The interpretation and use of the Uniform Plumbing Code.

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: One

III. EXPECTED OUTCOMES FOR STUDENTS:

Upon successful completion of the course, students should be able to:

- A. Identify drainage, waste, and vent systems.
- B. Calculate sizes of water distribution lines.
- C. Evaluate alternate materials.
- D. Size sewer systems.
- E. Regulate the installation of plumbing fixtures.

IV. COURSE CONTENT:

- A. Plumbing fixtures
 - 1. Minimum requirements
 - 2. Listed approvals
 - B. Water heaters
 - 1. Venting
 - 2. Gas/fuel systems
 - C. Drainage systems
 - 1. Direct
 - 2. Indirect
 - D. Vents
 - 1. Size
 - 2. Termination
 - E. Building sewers
 - 1. Public
 - 2. Private
 - F. Sewage disposal
 - 1. Location on property
 - 2. Setbacks
 - G. Installation standards
 - 1. Manufacturers
 - 2. Code standards
 - H. Rainwater systems
 - 1. Roof drains
 - 2. Disposal
 - I. Greywater system
 - 1. Occupancies where permitted
 - 2. Installation standards
 - J. Medical gas systems
 - 1. State review
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K.	Commercial grease interceptors		2
1.	Restaurants		
2.	Installation		
		X	
V.	METHODS OF INSTRUCTION:		3
A.	Directed discovery discussions, lectures, and video viewing	X	3
B.	Instructor/student conferences addressing specific construction problems	X	1
		X	
VI.	TYPICAL ASSIGNMENTS:	X	3
A.	Read Chapter on <u>Fire Resistive - Construction</u> and complete the exercises at the end of the chapter. Typical Question: Determine the maximum allowable fixture units for a 2" vent.	X	3
B.	Write a correction notice for an undersized septic tank.		1
C.	Size a private sewage disposal system for a three-bedroom single-family residence.		
VII.	EVALUATION(S):		
A.	Methods of Evaluation:		
1.	Graded assignments - Each chapter exercise must be completed with a satisfactory grade before proceeding to the next exercise.		
2.	Tests		
3.	Feedback from instructor/student conferences		
4.	Mid-term examination		
5.	Final examination Typical Question: Calculate the fixture units for a typical single-family bathroom.		
B.	Frequency of Evaluation:		
1.	Weekly graded assignments		
2.	Test at the end of each topic		
3.	One mid-term examination		
4.	One final examination		
5.	Periodic feedback from instructor/student conferences		
VIII.	TYPICAL TEXT(S):		
	<u>Uniform Plumbing Code</u> , International Conference of Building Officials, Whittier, CA, 2000		
	<u>Student Workbook for the Uniform Plumbing Code</u> , International Conference of Building Officials, Whittier, CA, 2000		
IX.	OTHER SUPPLIES REQUIRED OF STUDENTS:		
	Three-ring binder		