

I. COURSE DESCRIPTION:

- A. Department Information:
Division: Technical
Department: Welding
Course ID: INSPEC 013B
Course Title: Advanced Construction Inspection: Uniform Building Code
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: INSPEC 012
- B. Catalog and Schedule Description:
Study of the Uniform Building Code for inspectors, including application, interpretation, and use of the code.

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

III. EXPECTED OUTCOMES FOR STUDENTS:

Upon completion of the course, students will be able to:

- A. Identify building construction types.
- B. Verify occupancies and use.
- C. Evaluate building locations on property.
- D. Write correction notices requesting code compliance.
- E. Read and interpret Code provided span tables.
- F. Inspect buildings and structures for compliance with the Uniform Building Code.

IV. COURSE CONTENT:

- A. Administration, permits, and inspections
 1. Building official
 2. Deputy inspectors
 3. Required inspections
 - a) Foundation
 - b) Underground plumbing
 - c) Framing
 - d) Rough electrical, plumbing, and mechanical
 - e) Insulation
 - f) Wall covering
 - g) Final
 4. Permits required
- B. Building areas
 1. Maximum allowable
 2. Location on property
 - a) Fire rated exterior walls
 - b) Openings in exterior walls
- C. Types of construction
 1. Combustible
 - a) Type V
 - b) Type III
 - c) Type IV
 2. Noncombustible
 - a) Type I
 - b) Type II
- D. Occupancy classifications
 1. Assembly
 2. Business

3. Educational
4. Factory
5. Hazardous
6. Institutional
7. Mercantile
8. Residential
9. Storage
10. Utility
- E. Fire resistive construction
 1. One-hour rated
 2. Two-hour rated
 3. Four-hour rated
- F. Engineering requirements
 1. Conventional construction
 2. Design requirements
- G. Exits
 1. Minimum required
 2. Distance between
- H. Disabled access
 1. Path of travel
 2. Parking
 3. Primary entrance
 4. Circulation
 5. Toilet rooms
 6. Water and drinking fountains
 7. Telephone access
 8. Fire warning systems
- I. Glazing
- J. Roof covering
 1. Installation
 2. Class rating
- K. Grading and excavation

V. METHODS OF INSTRUCTION:

- A. Directed discovery discussions, lectures and video viewing
- B. Instructor/student conferences to discuss specific construction problems
- C. Students will view videos of active construction sites and write correction notices for code compliance.

VI. TYPICAL ASSIGNMENTS:

- A. Write a correction notice for the framing portion of the video.
- B. Read Chapter on Excavation and Grading and complete the exercises at the end of the workbook.
Typical Questions:
 1. Determine the exiting requirements for a 1000 square foot office.
 2. Calculate the maximum allowable area for a Type VN office building.

VII. EVALUATION(S):

- A. Methods of Evaluation:
 1. Graded assignments - Each chapter exercise must be completed and a satisfactory grade received to advance to the next exercise.
 2. Mid-term examination

San Bernardino Valley College
Curriculum Approved: February 24, 2003
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3. Final examination
Typical Questions:
 - a) Using Table 5-A, determine the maximum allowable area for a Type VN single-family residence.
 - b) Determine a Construction Type for a building constructed with metal studs and a comp shingle roof.
 - c) Explain the requirements for construction permits in existing buildings.
- B. Frequency of Evaluation:
 1. Weekly graded assignments
 2. One mid-term examination
 3. One final examination

VIII. TYPICAL TEXT(S):

Uniform Building Code, International Conference of Building Officials, Whittier, CA, 2000
Student Workbook, Uniform Building Code, International Conference of Building Officials, Whittier, CA, 2000

IX. OTHER SUPPLIES REQUIRED OF STUDENTS:

Three ring binder