

# BIT 330B: CALIFORNIA PLUMBING CODES IN CONSTRUCTION

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## New Course Proposal

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### Originator

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### Co-Contributor(s)

#### Name(s)

Bitanga, Bert

### Justification / Rationale

This course is Module 2 of 2 of a non-credit overlay version of BIT 30 California Plumbing Codes. The non-credit version provides vocational skills training opportunities to the incumbent workforce and those currently underemployed or unemployed. This module relates the California plumbing codes to construction requirements and compliance.

### Effective Term

Fall 2020

### Credit Status

Noncredit

### Subject

BIT - Building Inspection Technology

### Course Number

330B

### Full Course Title

California Plumbing Codes in Construction

### Short Title

CA PLUMBING CODES CONST

### Discipline

#### Disciplines List

Building Codes and Regulations (Inspecting of construction, building codes, contractor training)

### Modality

Face-to-Face

100% Online

### Catalog Description

This course emphasizes an understanding of California Building and Plumbing Codes, application of code sections and provisions, and the relationships between building and plumbing codes.

### Schedule Description

California Plumbing Codes applied to construction, maintenance, and use of buildings and grounds within the State. Prerequisite: BIT 330A

### Non-credit Hours

54

### Lecture Units

0

### Lab Units

0

**In-class Hours**

18

**Out-of-class Hours**

36

**Total Course Units**

0

**Total Semester Hours**

54

**Override Description**

Noncredit courses do not have lecture and lab. The out of class hours were adjusted to provide the same total as the equivalent credit course.

**Prerequisite Course(s)**

BIT 330A

**Required Text and Other Instructional Materials****Resource Type**

Book

**Author**

California Building Standards Commission

**Title**

California Plumbing Code

**Edition**

latest

**City**

Sacramento

**Publisher**

International Association of Plumbing and Mechanical Officials

**Year**

2016

**College Level**

Yes

**Flesch-Kincaid Level**

12.4

**ISBN #**

9781938936920

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**Class Size Maximum**

28

**Entrance Skills**

Understand the codes in construction, regulation and design.

**Requisite Course Objectives**BIT 330A-Understand the codes in construction, regulation, and design

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**Course Content**

1. Handling and Classification of Hazardous Materials and relationship between Building and Plumbing Codes.
2. Responsibilities under Plumbing Codes.
3. Construction Materials Use and Plumbing Fixtures.
4. Maintenance of Buildings and Property.
5. Building Construction Processes.
6. Gas Piping and Relationship between Building, Mechanical and Plumbing Codes.
7. Types of Construction.

**Course Objectives**

Objectives	
Objective 1	Identify the responsibilities required to apply the California Plumbing codes in construction design, regulation, and maintenance of existing structures and property.
Objective 2	Discuss administered examination used to gain professional certification in the building inspection field.
Objective 3	Discuss skills for employment in private or public construction field as an inspector or plans examiner.

**Student Learning Outcomes**

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Cite code sections with relation to plumbing codes in construction, regulation and design.
Outcome 2	Apply provisions with relation to plumbing codes in construction, regulation and design.

**Methods of Instruction**

Method	Please provide a description or examples of how each instructional method will be used in this course.
Lecture	Presentation of Topic in context.
Discussion	Classroom and group discussions of code application.
Participation	Class discussion and questions.
Other (Specify)	Presentation of construction materials.

**Methods of Evaluation**

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Group activity participation/observation	Activity based learning applied to concepts of the course. Activity may include actual or virtual site visits.	In and Out of Class
Mid-term and final evaluations	Comprehensive exams covering the entire content of the course. Exam may include a project completed out-of-class or an in-class multiple choice exam.	In and Out of Class
Tests/Quizzes/Examinations	Timed quizzes completed out-of-class with discussion of answers in-class.	In and Out of Class
Self-paced testing, Student preparation	Research how California Plumbing codes impact one or more construction or plan check situations and prepare an in-class presentation.	In and Out of Class
Student participation/contribution	Participation in class and group discussions including critique of instructor and peer presentations.	In Class Only
Other	Out-of-class hours will be accounted for electronically through the learning management system.	Out of Class Only

**Assignments**

**Other In-class Assignments**

1. Presentation of class subjects and materials.
2. Review code sections.
3. Presentations of code examples and situations.
4. Critique of presentations.

**Other Out-of-class Assignments**

1. Reading assignments of codes and handouts.
2. Visit construction sites in person or virtually.
3. Review code sections presented in classes.
4. Prepare code application example presentation.

**Grade Methods**

Pass/No Pass Only

**Distance Education Checklist****Instructional Materials and Resources****Effective Student/Faculty Contact**

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

**Within Course Management System:**

Timely feedback and return of student work as specified in the syllabus  
Discussion forums with substantive instructor participation  
Chat room/instant messaging  
Regular virtual office hours  
Online quizzes and examinations  
Weekly announcements

**External to Course Management System:**

Direct e-mail

**Other Information**

**Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.**

This course discusses the California Plumbing Codes which they will need to read and reference on their own in the workplace. Online learning is very appropriate.

**MIS Course Data****CIP Code**

46.0403 - Building/Home/Construction Inspection/Inspector.

**TOP Code**

095720 - Construction Inspection

**SAM Code**

C - Clearly Occupational

**Basic Skills Status**

Not Basic Skills

**Prior College Level**

Not applicable

**Cooperative Work Experience**

Not a Coop Course

**Course Classification Status**

Other Non-credit Enhanced Funding

**Approved Special Class**

Not special class

**Noncredit Category**

Short-Term Vocational

**Funding Agency Category**

Not Applicable

**Program Status**

Program Applicable

**Transfer Status**

Not transferable

**Allow Audit**

No

**Repeatability**

Yes

**Repeatability Limit**

NC

**Repeat Type**

Noncredit

**Justification**

Noncredit courses are repeatable until students are comfortable they have achieved the skills and knowledge to meet the objectives and outcomes of the course.

**Materials Fee**

No

**Additional Fees?**

No

**Approvals****Curriculum Committee Approval Date**

10/17/2019

**Academic Senate Approval Date**

10/24/2019

**Board of Trustees Approval Date**

11/13/2019

**Chancellor's Office Approval Date**

01/10/2020

**Course Control Number**

CCC000611556

**Programs referencing this course**

California Plumbing Codes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=249/>)