

# ACT 320: CONSTRUCTION SAFETY

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## New Course Proposal

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### Originator

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### Co-Contributor(s)

#### Name(s)

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### Justification / Rationale

Construction is one of the top employment opportunities in the Coachella Valley and with the new Title 24 requirements for Zero Net Energy construction, there is a need for a more educated construction workforce. This course is one of five modules of a non-credit overlay version of CM 020 Introduction to Construction Technology. Module 1 covers construction safety; Module 2 covers appropriate use of tools and equipment, Module 3 provides review of the basic math skills required for construction; Module 4 provides an awareness of career opportunities in the construction industry and the employability skills required to succeed in those careers; and Module 5 introduces the concepts of green construction and the impact of construction on the environment. Providing this non-credit version allows those currently unemployed or underemployed to gain the skills and knowledge required to obtain and succeed in construction jobs; providing the modules as a credit overlay allows students to qualify for credit by exam and move into a credit pathway to continue education.

### Effective Term

Fall 2020

### Credit Status

Noncredit

### Subject

ACT - Applied Construction Technolog

### Course Number

320

### Full Course Title

Construction Safety

### Short Title

CONSTRUCTION SAFETY

### Discipline

#### Disciplines List

Construction Technology

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

Architecture

Carpentry

Construction Management

Plumbing

Electricity (Electrical power distribution)

### Modality

Face-to-Face

100% Online

### Catalog Description

This course provides students with in-depth analysis of the organization and structure of the construction industry, a basic knowledge of construction safety issues and the practices and procedures required to ensure safety on the job site.

**Schedule Description**

This course emphasizes construction job site safety.

**Non-credit Hours**

18

**Lecture Units**

0

**Lecture Semester Hours**

0

**Lab Units**

0

**Lab Semester Hours**

0

**In-class Hours**

9

**Out-of-class Hours**

9

**Total Course Units**

0

**Total Semester Hours**

18

**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.

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

Book

**Author**

National Center for Construction Education and Research (NCCER)

**Title**

Core Curriculum: Introductory Craft Skills (Trainee Guide)

**Edition**

5th

**Publisher**

Pearson Education, Inc.

**Year**

2015

**College Level**

Yes

**Flesch-Kincaid Level**

11.8

**ISBN #**

9780134130989

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**Resource Type**

Book

**Author**

Huth, Mark W.

**Title**

Residential Construction Academy: Basic Principles for Construction

**Edition**

4th

**City**

Clifton Park, NY

**Publisher**

CENGAGE Delmar Learning

**Year**

2016

**College Level**

Yes

**Flesch-Kincaid Level**

11.8

**ISBN #**

9781305088627

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**Resource Type**

Instructional Materials

**Title**

Career Connections Project Book 1

**Edition**

Most recent

**Publisher**

Carpenters International Training Fund

**Year**

2017

**Description**

CC0001G

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**Class Size Maximum**

30

**Course Content**

1. Overview of construction industry and closer examinations of individual trade expectations.
2. Construction safety – hazard recognition and OSHA regulations.

**Course Objectives**

Objectives	
Objective 1	Discuss the apprenticeship requirements and responsibilities for a variety of construction trades.
Objective 2	Discuss common safety hazards on construction sites.
Objective 3	Explain the purpose of Occupational Safety and Health Administration (OSHA) and their regulations for the construction industry.
Objective 4	Demonstrate proper use of American National Standards Institute (ANSI) hand signals.
Objective 5	Demonstrate the ability to interpret information and instructions presented in both written and verbal form.
Objective 6	Demonstrate critical thinking skills and the ability to solve problems using those skills.

**Student Learning Outcomes**

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Explain the purpose of Occupational Safety and Health Administration (OSHA) and their regulations for the construction industry.

**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.
Laboratory	Analysis of job sites
Discussion	Classroom and group discussions
Participation	Class discussion and questions.
Other (Specify)	1. Guest lectures 2. Site visits
Activity	Hands on demonstrations of appropriate safety procedures.

**Methods of Evaluation**

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Homework assigned from text and worksheets.	Out of Class Only
Student participation/contribution	Participation in lab groups and classroom/online discussion.	In and Out of Class
Mid-term and final evaluations	Examinations covering key concepts introduced in the course.	In Class Only
Tests/Quizzes/Examinations	Weekly quizzes on topics covered in class and analysis of job sites.	In and Out of Class
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. Individual projects to analyze safety hazards on the construction job site.
2. Small group projects to analyze safety hazards on the construction job site and develop team procedures to ensure safety.

**Other Out-of-class Assignments**

1. Review questions
2. Vocabulary terms
3. Completing daily assigned homework and complete pretests.
4. Reading textbook and supplementary assignments

**Grade Methods**

Pass/No Pass Only

## Distance Education Checklist

### Lab Courses

### 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

**Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.**

Timely feedback and return of student work as specified in the syllabus.  
Discussion forums with substantive instructor participation.  
Online quizzes and examinations.  
Weekly announcements.

### Other Information

#### MIS Course Data

##### CIP Code

46.0412 - Building/Construction Site Management/Manager.

##### TOP Code

095700 - Civil and Construction Management Technology

##### SAM Code

D - Possibly Occupational

##### Basic Skills Status

Not Basic Skills

##### Prior College Level

Not applicable

##### Cooperative Work Experience

Not a Coop Course

##### Course Classification Status

Workforce Prep Enhanced Funding

##### Approved Special Class

Not special class

##### Noncredit Category

Workforce Preparation

##### 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 the student has achieved the skills and knowledge required 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**

01/08/2020

**Course Control Number**

CCC000611443

**Programs referencing this course**

Construction Technology Framing Carpentry Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=279/>)

Construction Technology Introduction Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=280/>)

Construction Technology Site Preparation and Layout Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=281/>)

Construction Technology Plumbing Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=282/>)

Construction Technology Concrete and Masonry Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=283/>)

Construction Technology Exterior Finishes Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=284/>)

Construction Technology Drywall Installation and Finish Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=285/>)

Construction Technology Electrical Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=286/>)

Construction Technology Finish Carpentry Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=287/>)

Construction Technology Career Preparation Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined?key=292/>)