

ACT 328: FINISH CARPENTRY FUNDAMENTALS

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Originator

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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 three modules of a non-credit overlay version of CM 020 Introduction to Construction Technology. Module 1 covers tools, equipment, safety and green concepts; Module 2 provides training and review of the basic math skills required for construction; Module 3 provides an awareness of career opportunities in the construction industry and the employability skills required to succeed in those careers. 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

328

Full Course Title

Finish Carpentry Fundamentals

Short Title

FINISH CARPENTER INTRO

Discipline**Disciplines List**

Construction Technology

Architecture

Construction Management

Modality

Face-to-Face

100% Online

Catalog Description

This course focuses on the variety of applications that occur within the interior of a building during the final stages nearing completion. Topics such as safety, door and window installation, door hardware, trims and molding, tools for installation, and cabinet installation are covered. Students participate in Service Learning by way of a practical lab or an actual project site under close supervision of trade professionals.

Schedule Description

Interior finish carpentry including doors, windows, trims and molding and cabinets. Prerequisite: ACT 320 or concurrent enrollment

Non-credit Hours

27

Lecture Units

0

Lab Units

0

In-class Hours

9

Out-of-class Hours

18

Total Course Units

0

Total Semester Hours

27

Override Description

Noncredit override.

Prerequisite Course(s)

ACT 320 or concurrent enrollment

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

Book

Author

National Center for Construction Education and Research

Title

Construction Technology-Trainee Guide

Edition

4th

City

Gainesville, FL

Publisher

Pearson Prentice Hall

Year

2016

College Level

Yes

Flesch-Kincaid Level

12

ISBN #

0134130391

Resource Type

Instructional Materials

Title

Career Essentials Project Book 3

Edition

Latest Edition

Publisher

Carpenters International Training Fund

Year

2018

Description

CC0003RG

Class Size Maximum

40

Entrance Skills

Safety on construction sites.

Requisite Course Objectives

ACT 320-Discuss common safety hazards on construction sites.

Entrance Skills

Ability to interpret information and instructions presented in both written and verbal form.

Requisite Course Objectives

ACT 320-Demonstrate the ability to interpret information and instructions presented in both written and verbal form.

Entrance Skills

Critical thinking skills and the ability to solve problems using those skills.

Requisite Course Objectives

ACT 320-Demonstrate critical thinking skills and the ability to solve problems using those skills.

Course Content

1. Overview of interior finishes
2. Safety in the interior work space
3. Door types and basic construction
4. Metal door frames
5. Interior wood door jambs
6. Interior wood doors
7. Door stop strips
8. Job site prehanging a door prior to installation
9. Manufactured prehung door unit installation
10. Interior locksets
11. External door stops, holders, and door closers
12. Other door hardware
13. Other door types
14. Door lights
15. Commercial exterior doors
16. Moldings
17. Basic procedures and guidelines for installing trim
18. Window trim installation techniques and guidelines
19. Door trim installation
20. Baseboard trim installation techniques

21. Ceiling trim installation techniques and guidelines
22. Estimating trim materials
23. Parts of manufactured cabinets
24. Woods and materials used in cabinet construction
25. Cabinet doors, drawers, and hardware
26. Cabinet shelves and shelf hardware
27. Cabinet island
28. Commercial cabinets
29. Counter tops
30. Fasteners used for cabinet construction and installation
31. Installing cabinets

Course Objectives

Objectives	
Objective 1	Identify the various types of door jambs and frames.
Objective 2	Overview of finish carpentry drawings and specifications.
Objective 3	Identify different types of interior doors.
Objective 4	Discuss safety procedures for hand and power tools used to install doors and door hardware.
Objective 5	Discuss the procedure for placing and hanging selected doors.
Objective 6	Identify different types of door hardware.
Objective 7	Identify the different types of standard moldings and describe their use.
Objective 8	Discuss the proper procedure for making coped joint cuts using a coping saw.
Objective 9	Discuss the process of estimating the quantities of different trim materials required for selected rooms.
Objective 10	Explain the classes and sizes of typical base and wall kitchen cabinets.
Objective 11	Discuss the process of estimating the quantities of different trim materials required for selected rooms.
Objective 12	Explain the classes and sizes of typical base and wall kitchen cabinets.
Objective 13	Identify cabinet components and hardware and describe their purpose.
Objective 14	Explain the installation of an island base.
Objective 15	Describe the proper procedure for laying out factory-made cabinets, counter tops and back splashes.
Objective 16	Identify cabinet components and hardware and describe their purpose.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Identify the various types of components and interior finishes used in the construction industry.
Outcome 2	Estimate the quantities of different trim materials for selected applications.
Outcome 3	Outline the safety procedures for hand and power tools used in finish carpentry.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Activity	Develop procedures for estimating materials for doors, windows, cabinets and moldings.
Participation	Individual and group participation in evaluation of construction options.
Lecture	Introduce topics in context.
Discussion	In-class and online evaluation of construction options and methods.
Other (Specify)	Office and site visits

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	Determination of appropriate materials and techniques for constructing doors, windows, cabinets and moldings.	Out of Class Only
Other	Quizzes out of class and in-class exercises.	In and Out of Class
Student participation/contribution	Individual and group participation in evaluation of construction options.	In and Out of Class
Product/project development evaluation	Estimates for materials for door, window, cabinet and molding installation.	Out of Class Only
Group activity participation/observation	Participation in discussion of estimates.	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. Individual projects to develop estimates and procedures.
2. Small group projects to review and evaluate estimates and procedures.

Other Out-of-class Assignments

1. Review questions.
2. Prepare material recommendations and estimates.
3. Short response papers to evaluate estimates and methods.
4. Vocabulary terms.
5. Textbook readings.

Grade Methods

Pass/No Pass Only

Distance Education Checklist
Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

Only the college LMS will be used.

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
 Regular virtual office hours
 Online quizzes and examinations
 Video or audio feedback
 Weekly announcements

External to Course Management System:

Direct e-mail
 Posted audio/video (including YouTube, 3cm mediasolutions, etc.)

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

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

General Education Status

Not applicable

Support Course Status

Course is not a support course

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Noncredit courses are repeatable until students achieve 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**

11/05/2019

Academic Senate Approval Date

11/14/2019

Board of Trustees Approval Date

12/19/2019

Chancellor's Office Approval Date

06/17/2020

Course Control Number

CCC000618219

Programs referencing this course

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/>)