



## Western Technical College

# 31410321 Interior Trim 1

## Course Outcome Summary

### Course Information

<b>Description</b>	This course introduces the materials and techniques used to finish the interior of a home. Students will hang interior doors, install casing, base, and crown molding, and complete the finish of a stair balustrade in the framing lab.
<b>Career Cluster</b>	Architecture and Construction
<b>Instructional Level</b>	Technical Diploma Courses
<b>Total Credits</b>	2
<b>Total Hours</b>	72

### Textbooks

*Carpentry and Building Construction (Student Edition)*. Copyright 2016. McGraw-Hill Education. Publisher: McGraw-Hill Publishing Company. **ISBN-13:** 978-0-02-140244-1. Required.

### Learner Supplies

Safety glasses with side eye protection that meet Z87 OSHA guidelines. **Vendor:** Campus Shop. Required.

Tools: Tool belt, 25' - 1" tape measure, 16 or 20 oz. hammer, speed square, chalk line, utility knife, wood chisels (1/4, 1/2, 3/4, 1"). **Vendor:** To be discussed in class. Required.

Scientific Calculator - \$20. **Vendor:** Campus Shop. Required.

Proper work boots - \$35.00-75.00. **Vendor:** To be discussed in class. Required.

Cold weather workwear: wool socks, work gloves, hat, insulated bibs/coveralls, insulated winter boots. **Vendor:** To be discussed in class. Required.

### Program Outcomes

1. Use hand and power tools and equipment.
2. Apply industry recognized safety practices and procedures.
3. Demonstrate industry building practices and material application.

## Course Competencies

### 1. Install an interior door.

#### Assessment Strategies

- 1.1. Skill Demonstration

#### Criteria

*You will know you are successful when:*

- 1.1. you bevel and sand the strike side of the door to the proper angle to allow the door to close without binding.
- 1.2. you calculate the correct dimensions, assemble, and install the jamb assembly within the rough opening plumb and square.
- 1.3. you correctly assemble and position a hinge-butt template on the door and jamb and use a router to mortise the door edge and jamb at the proper depth to receive hinges.
- 1.4. you apply the hinges to the door and jamb using correct pre-drilling and fastening methods and hang the door on the jamb.
- 1.5. you install door stop molding on the jamb maintaining correct door position within the jamb and clearance on the hinge side to prevent door binding.
- 1.6. you position a lockset boring jig properly to allow for the correct height and backset of the door hardware, and bore holes to receive the door and jamb hardware without damaging the door or jamb.
- 1.7. you install the door hardware maintaining proper fit and finishing techniques.

#### Learning Objectives

- 1.a. Use a belt sander and an electric door plane to bevel the strike side of a door.
- 1.b. Assemble a door jamb.
- 1.c. Install a door jamb within a rough opening.
- 1.d. Use a hinge-butt template and router to create hinge mortises.
- 1.e. Apply hinges to a door and door jamb to provide installation of door.
- 1.f. Install door stop molding
- 1.g. Use a lockset boring kit to prepare a door for hardware installation.
- 1.h. Install door hardware.

### 2. Install casing, base, and crown molding.

#### Assessment Strategies

- 2.1. Skill Demonstration

#### Criteria

*You will know you are successful when*

- 2.1. you operate a compound miter saw in a safe and effective manner
- 2.2. you measure and cut door casing to the proper lengths and angles to achieve tight miters at the corners
- 2.3. you measure, cut, and cope base board to achieve tight connections at the inside and outside corners of a wall at the floor
- 2.4. you measure, cut, and cope crown moulding to achieve tight connections at the inside and outside corners of a wall where it meets the ceiling
- 2.5. you use pneumatic trim guns and appropriate fasteners to secure trimwork to door jambs and walls maintaining a correct nailing pattern and air pressure setting

#### Learning Objectives

- 2.a. Operate a compound miter saw
- 2.b. Install door casing
- 2.c. Install base board
- 2.d. Install crown molding
- 2.e. Use pneumatic nail guns and appropriate fasteners to install trim work

### 3. Identify the trim components of a closed stringer staircase.

#### Assessment Strategies

- 3.1. Written Objective Test (score 70% or higher)

#### Criteria

*You will know you are successful when:*

- 3.1. you label the finishing components of a closed stringer staircase as illustrated on an architectural drawing.

#### **Learning Objectives**

- 3.a. Identify the finishing components of a closed stringer staircase to include skirtboards, newel posts, handrail, guardrail, knee wall cap, shoe rail, ballusters, and fillet strip.

### **4. Install a closed stringer balustrade.**

#### **Assessment Strategies**

- 4.1. Skill Demonstration

#### **Criteria**

*You will know you are successful when:*

- 4.1. you cut treads and risers within 1/8" accuracy and properly fasten them to the stair stringers.
- 4.2. you install skirtboards to rest on the intermediate landing and floor while matching the angle of the steps.
- 4.3. you correctly measure, cut, and install all trim components to include newel posts, knee wall cap and trim, hand and shoe rail, and ballusters and fillet strip.
- 4.4. you produce a functional and attractive finished product with minimal defects in accordance with the uniform dwelling code.

#### **Learning Objectives**

- 4.a. Install treads and risers.
- 4.b. Install skirtboards.
- 4.c. Install knee wall trim to include knee wall cap and casing.
- 4.d. Install newel posts.
- 4.e. Install handrail and shoerail.
- 4.f. Install ballusters and fillet strip.

### **5. Fit an object to an irregular surface using scribing techniques.**

#### **Assessment Strategies**

- 5.1. Skill Demonstration

#### **Criteria**

*You will know you are successful when*

- 5.1. the counter top rests on the surface with an even overhang on both exposed edges
- 5.2. the counter top rests on the surface with two edges fitting tight against the irregular wall

#### **Learning Objectives**

- 5.a. Set the counter top edge overhang even along two edges
- 5.b. Adjust the scribe to the greatest gap along the wall on both edges
- 5.c. Transfer the shape of the wall to the counter top
- 5.d. Sand the counter top to fit the shape of the wall