



# Carpentry and Building Construction (HTE3051B)

## NDCDE Resources

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### Welcome: Start Here!

## Buzz Student Orientation

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### Start Here

Your Home Dashboard (the view after you log in)

### Customize My Settings

My Profile

Get notifications from your teacher!

### My Home Dashboard

What's in my Main Menu?

How do I use the Performance Tool (Grades)?

How do I use the Communication tools (Email/Announcements)?

How do I Use the Calendar Tool?

How do I reorder my course cards?

### My Activities

Your Course Home Page

How do I access my activities?

Marking an Activity Complete

Submitting Dropbox Activities

Taking an Assessment

Posting Discussion

Submitting a Blog or Journal

### Tracking My Progress

How to Check Your Progress in Buzz

## Welcome to Carpentry and Building Construction

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### Course Introduction

#### News forum

#### Course Outline

#### Math Review

#### Course Objectives

## Lesson 1: Wood, Lumber, and Engineered Panels

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### Lesson Title

### Lesson Assignments and Objectives

#### 1-01. Chapter 1: Wood

#### 1-02. Chapter 2: Lumber

#### 1-03. Chapter 3: Rated Plywood and Panels

**1-04. Chapter 4: Nonstructural Panels**

**1-05. Assignment 1**

**1-06. Assignment 2**

**1-07. Assignment 3**

**1-08. Assignment 4**

## Lesson 2: Engineered Lumber Products; Fasteners

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**Lesson Title**

**Lesson Assignments and Objectives**

**2-01. Chapter 5: Laminated Veneer**

**2-02. Chapter 6: Parallel Strand Lumber and Laminated Strand Lumber**

**2-03. Chapter 7: Wood I-Joists**

**2-04. Chapter 8: Glue-Laminated Lumber**

**2-05. Chapter 9: Nails, Screws, and Bolts**

**2-06. Chapter 10: Anchors and Adhesives**

**2-07. Assignment 1**

**2-08. Assignment 2**

**2-09. Assignment 3**

**2-10. Assignment 4**

## Lesson 3: Hand Tools and Portable Power Tools

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**Lesson Title**

**Lesson Assignments and Objectives**

**3-01. Chapter 11: Layout Tools**

**3-02. Chapter 12: Boring and Cutting Tools**

**3-03. Chapter 13: Fastening and Dismantling Tools**

**3-04. Chapter 14: Saws, Drills and Drivers**

**3-05. Chapter 15: Planes, Routers, and Sanders**

**3-06. Chapter 16: Fastening Tools**

**3-07. Assignment 1**

**3-08. Assignment 2**

**3-09. Assignment 3**

**3-10. Assignment 4**

## Lesson 4: Stationary Power Tools; Scaffolds, Ladders, and Horses

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**Lesson Title**

**Lesson Assignments and Objectives**

**4-01. Chapter 17: Circular Saw Blades**

**4-02. Chapter 18: Radial Arm and Miter Saws**

**4-03. Chapter 19: Table Saws**

**4-04. Chapter 39: Wood, Metal, and Pump Jack Scaffolds**

**4-05. Chapter 40: Brackets, Horses, and Ladders**

**4-06. Assignment 1**

**4-07. Assignment 2**

**4-08. Assignment 3**

**4-09. Assignment 4**

## Test One

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**Test One**

## Lesson 5: Architectural Plans and Building Codes

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**Lesson Title**

**Lesson Assignments and Objectives**

- 5-01. Chapter 20: Understanding Architectural Plans
- 5-02. Chapter 21: Floor Plans
- 5-03. Chapter 22: Sections and Elevations
- 5-04. Chapter 23: Plot and Foundation Plans
- 5-05. Chapter 24: Building codes and Zoning Regulations
- 5-06. Assignment 1
- 5-07. Assignment 2
- 5-08. Assignment 3

## Lesson 6: Building Layout and Concrete Form Construction

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### Lesson Title

#### Lesson Assignments and Objectives

- 6-01. Chapter 25: Leveling and Layout Tools
- 6-02. Chapter 26: Laying out Foundation Lines
- 6-03. Chapter 27: Characteristics of Concrete
- 6-04. Chapter 28: Forms for Footings, Slabs, Walks, and Driveway
- 6-05. Chapter 29: Wall and Column Forms
- 6-06. Chapter 30: Concrete Stair Forms
- 6-07. Assignment 1
- 6-08. Assignment 2
- 6-09. Assignment 3
- 6-10. Assignment 4

## Lesson 7: Floor Framing and Exterior Wall Framing

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### Lesson Title

#### Lesson Assignments and Objectives

- 7-01. Chapter 31: Types of Frame Construction
- 7-02. Chapter 32: Layout and Construction of the Floor Frame
- 7-03. Chapter 33: Construction to Prevent Termite Attack
- 7-04. Chapter 34: Exterior Wall Frame Parts
- 7-05. Chapter 35: Framing the Exterior Walls
- 7-06. Assignment 1
- 7-07. Assignment 2
- 7-08. Assignment 3
- 7-09. Assignment 4

## Test Two

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### Test Two

## Lesson 8: Interior Rough Work and Stair Framing

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### Lesson Title

#### Lesson Assignments and Objectives

- 8-01. Chapter 36: Interior Partitions and Ceiling Joists
- 8-02. Chapter 37: Backing and Blocking
- 8-03. Chapter 38: Steel Framing
- 8-04. Chapter 47: Stairways and Stair Design
- 8-05. Chapter 48: Stair Layout and Construction
- 8-06. Assignment 1
- 8-07. Assignment 2
- 8-08. Assignment 3
- 8-09. Assignment 4

## Lesson 9: Roof Framing

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**Lesson Title**

**Lesson Assignments and Objectives**

9-01. Chapter 41: Roof Types and Terms

9-02. Chapter 42: Gable and Gambrel Roofs

9-03. Chapter 43: Hip Roof

9-04. Chapter 44: The Intersecting Roof

9-05. Chapter 45: Shed Roofs, Dormers, and Other Roof Framing

9-06. Chapter 46: Trussed Roof

9-07. Assignment 1

9-08. Assignment 2

9-09. Assignment 3

Lesson 10: Insulation and Ventilation

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**Lesson Title**

**Lesson Assignments and Objectives**

10-01. Chapter 49: Thermal and Acoustical Insulation

10-02. Chapter 50: Condensation and Ventilation

10-03. Assignment 1

10-04. Assignment 2

Test Three

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**Test Three**

End of Course Survey

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**End of Course Survey**