

# CONSTRUCTION WORKER (475)

## 475-101. Intro to Building Trades. (1 Credit)

Explore the construction skill crafts, including carpentry, masonry and concrete trades, painting and decorating, electrical work, plumbing, heating/ventilation/air conditioning, and other trades in commercial, industrial, agricultural, and highway construction.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=101>)

## 475-103. Construction Documents. (2 Credits)

Become familiar with different types of construction documents and drawings, architectural symbols, written specifications, related materials and field sketching. Use divisions of work (CSI) and architectural catalogs to develop working drawings.

Prerequisites: 804-310 (may be taken concurrently) with a minimum grade of C- or 804-107 (may be taken concurrently) with a minimum grade of C- or 804-115 (may be taken concurrently) with a minimum grade of C- or 804-116 (may be taken concurrently) with a minimum grade of C- or 804-118 (may be taken concurrently) with a minimum grade of C- or 804-195 (may be taken concurrently) with a minimum grade of C- or 804-198 (may be taken concurrently) with a minimum grade of C- or 804-305 (may be taken concurrently) with a minimum grade of C- or 804-308 (may be taken concurrently) with a minimum grade of C- or 804-301 (may be taken concurrently) with a minimum grade of C- or 804-304 (may be taken concurrently) with a minimum grade of C- or 804-211 (may be taken concurrently) with a minimum grade of C-

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=103>)

## 475-105. Basic Carpentry Theory 1. (3 Credits)

Develop the basic skills required for on-site construction work. Learn safety principles, portable and stationary power tool operation, and building techniques. Learn the basics of residential floor, wall and roof framing, rafter layout and stair design.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=105>)

## 475-106. Basic Carpentry Theory II. (2 Credits)

Continue preparations for on-site work begun in previous coursework. Focus on building techniques including roofing, exterior trim, stair systems, interior finishing, cabinet construction and installation, and various counter-top materials and installation techniques.

Prerequisites: 475-105 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=106>)

## 475-107. Carpentry Experience I. (2 Credits)

Work on residential housing projects, including new construction and remodeling, during a work site experience. Focus on land development, foundations, rough framing, siding and shingling.

Prerequisites: 475-105 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=107>)

## 475-108. Carpentry Experience II. (3 Credits)

Build on Carpentry Experience I by continuing to work on residential housing projects, including new construction and remodeling, during a worksite experience. Focus on land development, foundations, rough framing, siding and shingling.

Prerequisites: 475-105 (may be taken concurrently) with a minimum grade of C and 475-107 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=108>)

## 475-109. Carpentry Experience III. (2 Credits)

Develop skills in interior finish work, drywall, painting, cabinet installation and floor covering as you continue worksite projects started in Carpentry II.

Prerequisites: 475-106 with a minimum grade of C and 475-108 with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=109>)

## 475-110. Carpentry Experience IV. (3 Credits)

Continue to develop skills in interior finish work, drywall, painting, cabinet installation and floor covering as you continue worksite projects.

Prerequisites: 475-108 (may be taken concurrently) with a minimum grade of C and 475-109 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=110>)

## 475-112. Carpentry Estimating & Plannin. (2 Credits)

Gain proficiency with construction estimating skills using industry-standard mathematical formulas. Create estimates for the materials needed and develop accurate lists for materials using industry-standard formats and nomenclature. Identify how the industry schedules labor and material deliveries. Examine Gantt and critical path charts.

Prerequisites: 475-103 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=112>)

## 475-114. Basic Computer Skills-Construc. (1 Credit)

Study the basic competencies of computers and their application in the construction industry. Learn about basic computer use, software programs used in the industry, hardware, word processing and basic spreadsheet use.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=114>)

## 475-116. Interior Finish Carpentry. (3 Credits)

Explore the basic theories and practices of residential interior finishes, and learn how to use the specialty tools required for each finish job. Train in installing a pre-hung door unit, door hardware, window and door casing; baseboard trim; specialty moldings; closet components; and factory-built cabinets and countertops. Gain basic knowledge of stair components and construction.

Prerequisites: 475-105 with a minimum grade of C and 475-110 (may be taken concurrently) with a minimum grade of C

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=116>)

**475-301. Building Trades/Introduction. (2 Credits)**

Explore the construction skill crafts, including carpentry, masonry and concrete trades, painting and decorating, electrical work, plumbing, heating/ventilation/air conditioning, and other trades in commercial, industrial, agricultural, and highway construction.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=301>)

**475-302. Carpentry Wood Framing. (2 Credits)**

Students will learn traditional wood framing theory and methods most commonly used in residential construction. After learning theories of wood framing in the classroom, students will construct small buildings in construction lab using carpentry hand and power tools. Students will learn safe operation of hand and power tools, and have the opportunity to earn OSHA 10-Hour for Construction certification.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=302>)

**475-303. Carpentry Millwork and Trim. (2 Credits)****475-304. Commercial Construct Carpentry. (2 Credits)**

This course will provide an overview of commercial construction carpentry. Students will work in construction lab using materials typically used in commercial construction. Examples of materials include metal wall framing, drywall, and concrete formwork.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=304>)

**475-306. Commercial Interior Systems. (2 Credits)**

This course will provide an overview of commercial construction interior systems typically installed by commercial carpenters. Systems include drywall finishing, suspended ceilings, VCT and tile flooring, and vinyl base moldings.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=306>)

**475-307. Comm. Construct Carpentry II. (2 Credits)**

Continue to explore commercial construction carpentry. Work in construction labs using materials and methods typically used in commercial and industrial construction, including metal wall framing, drywall installation and finishing, interior finishes and more.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=307>)

**475-310. Construction Blueprint Reading. (2 Credits)**

Become familiar with different types of construction drawings, architectural symbols, written specifications, related materials, and field sketching. Use divisions of work (CSI) and architectural catalogs to develop working drawings.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=310>)

**475-312. Construction Computer Skills. (1 Credit)**

Study the basic competencies of computers and their application in the construction industry. Learn about basic computer use, software programs used in the industry, hardware, word processing, and basic spreadsheet use.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=312>)

**475-316. Carpentry Theory 1. (2 Credits)**

Develop the basic skills required for on-site construction work. Learn safety principles, portable and stationary power tool operation, and building techniques. Learn the basics of residential floor, wall and roof framing, rafter layout and stair design.

Prerequisites: (475-301 (may be taken concurrently) with a minimum grade of C-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=316>)

**475-317. Carpentry Lab 1. (5 Credits)**

Work on residential housing projects, including new construction and remodeling, during a work site experience. Focus on land development, foundations, rough framing, siding, and shingling.

Prerequisites: (475-316 (may be taken concurrently) with a minimum grade of C-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=317>)

**475-318. Carpentry Theory 2. (2 Credits)**

Continue preparations for on-site work begun in previous coursework. Focus on building techniques, scheduling materials, millwork machine set up, and the use of portable finish tools.

Prerequisites: (475-316 with a minimum grade of C-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=318>)

**475-319. Carpentry Lab 2. (5 Credits)**

Develop skills in interior finish work, drywall, painting, cabinet installation, and floor covering as you continue work-site projects started in Carpentry II.

Prerequisites: (475-318 (may be taken concurrently) with a minimum grade of D- and 475-317 (may be taken concurrently) with a minimum grade of D-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=319>)

**475-321. Estimating and Planning. (2 Credits)**

Gain proficiency using residential construction estimating skills and Timberline estimating software to create estimates for material and labor. Develop planning strategies using a scheduling software package.

Prerequisites: (475-310 with a minimum grade of D- and 475-316 with a minimum grade of D- and 804-301 with a minimum grade of D-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=321>)

**475-350. Interior Finish. (3 Credits)**

Examine residential interior finish materials and application techniques, including plastic laminate and stone, custom millwork, ceramic and quarry tile, wallpaper, drywall, paint special effects, and floor coverings. Train in the installation of factory-built cabinets. Learn how to use the specialty tools required for each finish job.

Prerequisites: (475-316 with a minimum grade of D-)

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=350>)

**475-427. Construction/Building Codes. (0.4 Credits)**

Learn to identify current residential building codes. Explore various residential home designs and exterior finishes.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=427>)

**475-428. Basic Tool Usage. (0.4 Credits)**

Practice basic tool usage, demonstrate tool safety and learn to identify various types of tools.

See sections of this course (<http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=475&num=428>)