

CARPENTER APPRENTICESHIP COURSE SUMMARIES

COURSE CRA3402: BUILDING MATERIALS

Students develop knowledge, skills and attitudes in the areas of handling material and wood products; using fasteners, adhesives and sealants; and understanding concrete and its uses as required in the carpenter trade.

Prerequisite: CRA3900: Apprenticeship Safety

COURSE CRA3407: HAND TOOLS THEORY

Students develop knowledge, skills and attitudes in the area of hand tools, including their uses and safe storage as required in the carpenter trade.

Prerequisite: CRA3402: Building Materials

COURSE CRA3412: HAND TOOLS PRACTICAL

Students demonstrate the safe use and safe storage of hand tools as required in the carpenter trade.

Prerequisite: CRA3407: Hand Tools Theory

COURSE CRA3417: PORTABLE POWER TOOLS

Students develop knowledge, skills and attitudes in the area of portable power tools, including their uses and safe storage as required in the carpenter trade.

Prerequisite: CRA3412: Hand Tools Practical

COURSE CRA3422: STATIONARY TOOLS

Students develop knowledge, skills and attitudes in the area of stationary power tools, including their uses and safe storage as required in the carpenter trade.

Prerequisite: CRA3417: Portable Power Tools

COURSE CRA3427: ACCESSORY TOOLS

Students develop knowledge, skills and attitudes in the areas of cutters, bits and abrasives, explosive-actuated tools, and pneumatic and fuel-powered tools, their uses and safe storage as required in the carpenter trade.

Prerequisite: CRA3422: Stationary Tools

COURSE CRA3432: BUILDING FOUNDATIONS

Students develop knowledge, skills and attitudes in the areas of site and building layout, footing preparation, construction design principles and construction footing as required in the carpenter trade.

Prerequisite: CRA3427: Accessory Tools

COURSE CRA3437: FOUNDATIONS THEORY

Students develop knowledge, skills and attitudes in the areas of site and building layout, footing preparation, construction design principles and construction systems as required in the carpenter trade.

Prerequisite: CRA3432: Building Foundations

COURSE CRA3442: FOUNDATIONS PRACTICAL

Students demonstrate knowledge, skills and attitudes in the areas of site and building layout, footing preparation, construction design principles and construction systems as required in the carpenter trade.

Prerequisite: CRA3437: Foundations Theory

COURSE CRA3447: FLOOR FRAMES

Students develop knowledge, skills and attitudes in the areas of installation of floor frame supports and construction of floor frames as required in the carpenter trade.

Prerequisite: CRA3442: Foundations Practical

COURSE CRA3452: SKETCHING & DRAWING

Students develop knowledge, skills and attitudes in the areas of basic drawing techniques, orthographic projection and production of isometric drawings as required in the carpenter trade.

Prerequisite: CRA3447: Floor Frames

COURSE CRA3457: DRAWING PRINCIPLES

Students develop knowledge, skills and attitudes in the interpretation of working drawings and construction documentation as required in the carpenter trade.

Prerequisite: CRA3452: Sketching & Drawing

COURSE CRA3462: MATH CONCEPTS

Students develop knowledge, skills and attitudes in the application of mathematical concepts to solve problems in both metric and imperial measurements as required in the carpenter trade.

Prerequisite: None

COURSE CRA3467: ESTIMATING

Students develop knowledge, skills and attitudes to estimate forming materials, concrete materials and floor systems materials as required in the carpenter trade.

Prerequisite: CRA3462: Math Concepts

COURSE CRA3470: CRA PRACTICUM A

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

Prerequisite: None

COURSE CRA3475: CRA PRACTICUM B

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

Prerequisite: None

COURSE CRA3480: CRA PRACTICUM C

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

Prerequisite: None

COURSE CRA3485: CRA PRACTICUM D

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

Prerequisite: None

COURSE CRA3900: APPRENTICESHIP SAFETY

Students develop knowledge, skills and attitudes in the practice of workshop health and safety, communication and career planning.

Prerequisite: None