

## Carpenter (CRA) Apprenticeship Mapping

### Program Curriculum

A collection of 15 CTS courses has been developed to align with the current Carpenter Apprenticeship Course outline. These courses, when combined, cover the First Period technical training content.

| Alberta Apprenticeship Training Profile<br>First Period           | CTS Course Alignment to<br>Apprenticeship First Period Topics | Assessment |
|---|---|------------|
| Topic   | CTS Course Number and Name                                    |            |
| <b>SECTION ONE – SAFETY AND BUILDING MATERIALS</b>                |   |            |
| Safety Legislation, Regulations and Industry Policy in the Trades | CRA3900: Apprenticeship Safety                                |            |
| Climbing, Lifting, Rigging and Hoisting                           |   |            |
| Hazardous Materials and Fire Protection                           |   |            |
| Construction Equipment Safety                                     |   |            |
| Apprenticeship Training Program Orientation                       |   |            |
| Solid Wood Products and Wood Joinery                              | CRA3402: Building Materials                                   |            |
| Manufactured Construction Products                                |   |            |
| Fasteners, Adhesives and Sealants                                 |   |            |
| Introduction to Concrete  |   |            |
| <b>SECTION TWO – TOOLS</b>  |   |            |
| Hand Tools  | CRA3407: Hand Tools Theory                                    |            |
|   | CRA3412: Hand Tools Practical                                 |            |
| Portable Power Tools  | CRA3417: Portable Power Tools                                 |            |
| Stationary Power Tools  | CRA3422: Stationary Tools                                     |            |
| Cutters, Bits and Abrasives                                       | CRA3427: Accessory Tools                                      |            |
| Explosive-actuated Tools  |   |            |
| Pneumatic and Fuel-powered Tools                                  |   |            |

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|---|---|-------------------|
| <b>Topic</b>  | <b>CTS Course Number and Name</b>                                     |                   |
| <b>SECTION THREE – SITE PREPARATION, BUILDING LAYOUT, FOUNDATIONS AND FLOOR FRAME SYSTEMS</b> |   |                   |
| Preliminary Building Procedures   | CRA3432: Building Foundations   |                   |
| Building Loads and Forces   |   |                   |
| Foundation Supports   |   |                   |
| Concrete Flatwork   | CRA3437: Foundations Theory<br>CRA3442: Foundations Practical         |                   |
| Foundation Systems—Part A   |   |                   |
| Foundation Systems—Part B   |   |                   |
| Floor Frame Support   | CRA3447: Floor Frames   |                   |
| Floor Frames  |   |                   |
| <b>SECTION FOUR – RESIDENTIAL ESTIMATING AND DRAWING INTERPRETATION</b>                       |   |                   |
| Drawing Basics  | CRA3452: Sketching & Drawing  |                   |
| Orthographic Drawings—Part A  |   |                   |
| Orthographic Drawings—Part B  |   |                   |
| Pictorial Drawings and Sketching  |   |                   |
| Drawing Standards   |   |                   |
| Drawing Interpretation Principles—Part A  | CRA3457: Drawing Principles   |                   |
| Drawing Interpretation Principles—Part B  |   |                   |
| Drawing Interpretation Principles—Part C  |   |                   |
| Drawing Interpretation Principles—Part D  |   |                   |
| Drawing Interpretation Principles—Part E  |   |                   |
| Math Concepts—Part A  | CRA3462: Math Concepts  |                   |
| Math Concepts—Part B  |   |                   |
| Math Concepts—Part C  |   |                   |
| Math Concepts—Part D  |   |                   |
| Math Concepts—Part E  |   |                   |
| Estimate Foundation Forms and Concrete<br>Material Requirements                               | CRA3467: Estimating   |                   |
| Estimate Floor Systems Material Requirements  |   |                   |

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|--|---|------------|
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| <b>CTS COURSES THAT ALLOW STUDENTS ADDITIONAL PRACTICAL TIME</b> |   |            |
|  | CRA3470: CRA Practicum A                                      |            |
|  | CRA3475: CRA Practicum B                                      |            |
|  | CRA3480: CRA Practicum C                                      |            |
|  | CRA3485: CRA Practicum D                                      |            |