



Carpenter Foundation Program – CARPFD Trades Training

Program Outline

PROGRAM IMPLEMENTATION DATE: November 2000
OUTLINE EFFECTIVE DATE: September 2021
PROGRAM OUTLINE REVIEW DATE: March 2026

GENERAL PROGRAM DESCRIPTION:

This comprehensive 24 -week Carpenter Foundation (pre-apprenticeship) program provides students with the skills, knowledge and training necessary to enter the various sectors of the construction industry (residential, light commercial, light industrial or the heavy construction) and covers the program competencies for Level 1 of the four-level Carpenter Apprenticeship program. Content covered includes construction drawings, building codes and bylaws, hand tools, portable and stationary power tools, ladders and scaffolds, concrete formwork, work frame construction as well as survey instruments and equipment. The program includes classroom theory, demonstrations, and practical hands-on training in a carpenter workshop setting. Safe work habits are emphasized, reinforced and practiced throughout the program.

Credentials Granted: Upon successful completion of the 24-week Carpenter Foundation program, students receive:

- Level 1 Technical Training credit from the Industry Training Authority of the 4 Level Carpenter Apprenticeship program
- Certificate of Completion Carpenter Foundation from the Industry Training Authority
- College of the Rockies Certificate
- Credit for 450 Work-based Training hours from the Industry Training Authority

Delivery: This program can be delivered face to face or hybrid (online with face-to-face components).

Time for this program: 24 weeks

Structure of Instructional Hours:

Instructional Activity	Duration
Instructional Hours	28 hrs/wk
Directed Studies	2 hrs/wk
Hours per week	30 hrs/wk
Total Program Hours	720 hrs

Content Weighting	
Theory	50%
Practical Skills	50%
Total	100%

Program Outline Author or Contact:

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Signature

APPROVAL SIGNATURES:

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Department Head Signature

Dean Signature

EDCO

Valid from: September 2021 – March 2026

Education Council Approval Date

ADMISSION REQUIREMENTS:

Prerequisites:

- Secondary school graduation or equivalent, or completion of a College of the Rockies assessment to an acceptable level.

Recommended prerequisites: The following education is **highly** recommended for student success within the program:

- Workplace MATH 10 and Apprenticeship MATH 12. Either Apprenticeship and Workplace Math 11, Trades Mathematics 11, or equivalent
- Either English 12, English Studies 12, English First Peoples 12, ENGL 090, or equivalent (refer to Course Equivalency information on the College Website)

Flexible Assessment (FA):

Credit can be awarded for this program through FA Yes No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

Prior Learning Credit: Student may apply for prior learning credit with the ITA (Industry Training Authority), please visit www.itabc.ca.

Prior Program Number: N/A

Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Program Outline Effective Date the following textbooks were in use (most current edition):

Carpenter Apprenticeship Competencies Level 1, Queen's Printer

WorkSafeBC and OHS Regulations (free online access)

Optional:

BC Building Code – 2018

Stephenson, T. (2014) *Understanding Construction Drawings* (3rd ed). Nelson Education Ltd.

Vogt, F. *Carpentry* (3rd Canadian Ed). Nelson Education Ltd

Please see the instructor's syllabus or check COTR's online text calculator <http://go.cotr.bc.ca/tuition/tCalc.asp> for a complete list of the currently required textbooks.

PROGRAM COMPETENCIES AND TECHNICAL TRAINING CONTENT:

Upon the successful completion of this program, students will be able to

CAAP 101 Safe Work Practices

- Apply shop and site safety practices
- Apply personal safety practices

CAAP 102 Documentation and Organizational Skills

- Use construction drawings and specifications
- Interpret building codes and bylaws
- Plan and organize work
- Perform trade math

CAAP 103 Tools and Equipment

- Use hand tools
- Use portable power tools
- Use stationary power tools

CAAP 104 Survey Instruments and Equipment

- Use leveling instruments and equipment

CAAP 105 Access, Rigging and Hoisting Equipment

- Use ladders, scaffolds and access equipment
- Use rigging and hoisting equipment

CAAP 106 Site Layout

- Lay out building locations

CAAP 107 Concrete Formwork

- Use concrete types, materials, additives and treatments
- Select concrete forming systems
- Build footing and vertical formwork
- Build slab-on-grade forms and suspended slab forms
- Install reinforcement and embedded items
- Place and finish concrete

CAAP 108 Wood Frame Construction

- Describe wood frame construction
- Select framing materials
- Build floor systems
- Build stair systems
- Build decks and exterior structures

CAAP 109 Building Science

- Control the forces acting on a building

The program competencies and technical training content delivered in this program follow the Industry Training Authority Program Outline for this trade.

See instructor's syllabus for the detailed outline of weekly readings, activities and assignments.

WORKPLACE HEALTH AND SAFETY COURSES:

Students must pass the following Workplace Health and Safety courses for program completion:

- Workplace Hazardous Material Information System (*WHMIS: PVHE-700*)
- Fall Protection (*PVHE-517*)
- Occupational First Aid – Level 1 (*OFA-1: PVHE-100*) *

*Students must complete Occupational First Aid Level 1 within the program or have a current Occupational First Aid Level 1 certificate valid to the end of the program.

EVALUATION AND ASSESSMENT:

CARPENTER FOUNDATION			
COTR COURSE	SUBJECT COMPETENCIES	THEORY WEIGHTING	PRACTICAL WEIGHTING
CAAP 101	Safe Work Practices	6%	3%
CAAP 102	Documentation and Organizational Skills	16%	12%
CAAP 103	Tools and Equipment	17%	16%
CAAP 104	Survey Instruments and Equipment	6%	6%
CAAP 105	Access, Rigging and Hoisting Equipment	15%	15%

CAAP 106	Site Layout	2%	3%
CAAP 107	Concrete Formwork	20%	30%
CAAP 108	Wood Frame Construction	16%	15%
CAAP 109	Building Science	2%	0%
	Total	100%	100%
In-School Theory/Practical Subject Competency Weighting		50%	50%
Final in-school percentage score Students must achieve a minimum 70% overall as the final in-school percentage score		IN-SCHOOL %	

This program has a final exam that is administered on the last day of the program. The final percentage score for determining credit from the College of the Rockies Carpenter Foundation program is calculated as follows:

In-school percentage score Combined theory and practical subject competency	80%
Final Exam	20%
Final percentage score	FINAL%

Pass Requirements

In order to pass this program, students are required to

- achieve a minimum 70% overall final in-school percentage score
- pass all Workplace Health and Safety courses within the program

SAFETY:

WorkSafeBC regulations apply to all trades programs. Students are expected to follow all safe work practices and have high regard for the safety of others as well as of themselves. Students are responsible to wear personal protective equipment (PPE) as directed. At a minimum, students must provide and wear approved safety footwear and eyewear at all times in the shop. Additional PPE may be required for specific tasks. Students are expected to wear clothing suitable for working safely in the shop.

STUDENTS MUST PROVIDE THEIR OWN:

- Safety-toed leather work boots
- Safety glasses
- Coveralls/carpenter's apron
- Gloves
- Computer

- Pens, pencils, three-ring binder, paper
 - Calculator
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EXAM POLICY:

Students must attend all required scheduled tests and exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled test or exam without approval will be given a grade of “0” for the exam.

PROGRAM GRADE:

Program grades are assigned as follows:

COM	Completed to defined standard $\geq 70\%$
NCG	No Credit Granted $< 70\%$

ACADEMIC POLICIES:

See www.cotr.bc.ca/policies for general college policies related to program activities, including grade appeals, cheating and plagiarism.

PROGRAM CHANGES:

Information contained in program outlines is correct at the time of publication. Content of the program is revised on an ongoing basis to ensure relevance to changing educational, employment, and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add material to programs.