



Carpenter Apprenticeship Level 4 – CAAP4 Trades Training

Program Outline

PROGRAM IMPLEMENTATION DATE: November 2003
OUTLINE EFFECTIVE DATE: September 2020
PROGRAM OUTLINE REVIEW DATE: April 2025

GENERAL PROGRAM DESCRIPTION:

This 7-week program delivers the technical training for Level 4 of the four-level Carpenter Apprenticeship program. Apprentices develop knowledge and practical skills related to interpreting building codes and bylaws, using layout equipment, preparing building sites, wood frame construction including building roof systems, stairs, specialized framing systems, performing renovations and additions, building timber and engineered wood constructions, decks and exterior structures, and installing interior finishing for cabinets, floors, ceilings and wall systems. This program includes classroom theory, demonstrations and practical hands-on training in a carpenter shop setting. Safe work practices related to the carpenter trade are emphasized and reinforced throughout the program.

Credentials Granted: Upon successful completion of the 7-week Level 4 Carpenter Apprenticeship program, students receive:

- Level 4 Technical Training credit of the Carpenter Apprenticeship program from the Industry Training Authority.

Delivery: This program is delivered face to face as a block intake.

Time for this program: 7 weeks

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Theory based training (approximately)	50%
Practical shop floor training (approximately)	50%
Trades Contact Hours	28 hrs/wk

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-job Experience	N/A
Formal Work Experience	N/A
Other	N/A
Total	

Program Outline Author or Contact:

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Signature

APPROVAL SIGNATURES:

Department Head

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EDCO

Valid from: September 2020 – April 2025

Education Council Approval Date

PROGRAM PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: Sponsored Carpenter apprentice who has successfully completed Level 3 (harmonized curriculum) of the Carpenter Apprenticeship program or Level 3 of the Carpenter Apprenticeship (non-harmonized curriculum) AND Level 3 Gap B Training.

Flexible Assessment (FA):

Credit can be awarded for this program through FA

Yes

No

Prior Learning Credit: Apprentices that have extensive work experience in a trade (in BC or elsewhere) but have never been certified must apply through the Industry Training Authority (ITA) to challenge the certification for advanced placement in a program. Refer to the ITA website <http://www.itabc.ca/apply-apprenticeship/challenging-exams> for details regarding the challenge procedure. Trade specific requirements can be found for each trade in the Trades Program Profiles on the ITA website.

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):

Carpentry Apprenticeship Competencies Year 4
Vogt and Nauth, *Carpentry Canadian 1st Edition*
Building Trades Blueprint Reading – Residential
WCB Regulations (online)
BC Building Code
Canadian Woodframe House Construction (optional)
The Span Book (optional)

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 DESIGN:

Apprenticeship programs cover the general area competencies (GAC) for the program as sourced from curriculum documents provided by Industry Training Authority (ITA). The Technical Training Topics are listed under the Technical Training Content section of this document, and related competencies are listed under the Program Competencies section. College of the Rockies is accredited by ITA to deliver apprenticeship programs.

TECHNICAL TRAINING CONTENT:

- CAAP 411 Documentation and Organizational Skills**
- Interpret building codes and bylaws
 - Plan and organize work
- CAAP 412 Survey Instruments and Equipment**
- Use site layout equipment
- CAAP 413 Site Layout**
- Prepare building site
- CAAP 414 Wood Frame Construction**
- Build stair systems
 - Build roof systems
 - Build specialized framing systems
 - Perform renovations and additions
 - Build timber and engineered wood construction
 - Build decks and exterior structures
- CAAP 415 Finishing Materials**
- Install interior finishes
 - Install interior floor, ceiling and wall systems

CAAP 416 Building Science

- Control the forces acting on a building

PROGRAM COMPETENCIES:

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

- interpret building codes and bylaws, including completing documents for building permit applications;
- plan and organize work including describing contract documents, using plans and drawings, estimating costs;
- use site layout equipment and describe site considerations, preparation, pre-excavation preparation, draining systems and backfilling;
- build geometric stairs including circular and winding stairs and balustrades;
- build specialized framing systems;
- build specialized roofing systems, such as polygon roofs, bay windows or dormers;
- perform renovations and additions;
- build timber and engineered wood construction including traditional post and beam, heavy timber, and logs;
- build decks and exterior structures;
- install interior finishes and trims including finished floors, scribe fit paneling, casing and crown moldings; and
- install specialized interior floors, ceilings and wall systems.

The program competencies covered in this program follow Industry Training Authority harmonized curriculum.

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

EVALUATION AND ASSESSMENT:

Assignments	% Of Total Grade
Theory	50%
Practical	<u>50%</u>
Total	100%

CARPENTRY APPRENTICESHIP LEVEL 4			
COTR COURSE	SUBJECT COMPETENCIES	THEORY WEIGHTING	PRACTICAL WEIGHTING
CAAP 411	Documentation and Organizational Skills	15%	20%
CAAP 412	Survey Instruments and Equipment	10%	13%
CAAP 413	Site Layout	8%	0%
CAAP 414	Wood Frame Construction	55%	55%
CAAP 415	Finishing Materials	10%	12%
CAAP 416	Building Science	2%	0%
	Total	100%	100%

Calculated by the Training Provider		
Carpenter in-school theory & practical subject competency weighting	50%	50%
In-school Mark Combined theory and practical subject competency multiplied by	70%	
Proprietary Exam Mark The exam score is multiplied by	30%	
Training Provider enters final in-school mark into ITA Direct Access A score of 70% or greater is required for a pass.	FINAL%	

All apprentices who complete Level 4 of the Carpenter program with a FINAL level mark of 70% or greater will write the Interprovincial Red Seal examination as their final assessment.

ITA will enter the apprentices' Carpenter Interprovincial examination mark in ITADA. A minimum mark of 70% on the examination is required for a pass.

STUDENT RESPONSIBILITY:

Students are expected to follow all College Policies and Practices as outlined in the program handout package. Mastery of trade specific techniques and methods necessary to a given trade requires significant supervised practice. As a result, regular attendance is necessary for success in this program. Students are expected to follow Policy 2.6.2 – ***"Vocational Student Withdrawals as a Result of Absence"***.

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.

The shop attendant is also the first aid attendant for the building. Students may only work in the shop during assigned times. If an incident occurs, no matter how minor, it must be reported to the shop attendant immediately.

INDUSTRY SITE VISITS:

There may be off-site field trips organized in the program as opportunity or resources are available during this program. Students **ARE REQUIRED** to arrange their own transportation for such field trips. Students are expected to follow all college policies and procedures when participating in off-campus activities.

STUDENTS MUST PROVIDE THEIR OWN:

- Safety-toed leather work boots
 - Safety glasses
 - Reference manuals (as listed on the second page)
 - Pens, pencils, three-ring binder, paper
 - Calculator (non-programmable)
 - Paper
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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 ≥ 70
NCG	No Credit Granted < 70

Successful completion of the in-school training for each level is defined as a final score of 70% or greater. (ITA website)

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.