



Carpenter Apprenticeship Level 1 – CAAP1

Trades Training

Apprenticeship Program Outline

PROGRAM IMPLEMENTATION DATE: November 2003
OUTLINE EFFECTIVE DATE: March 2018
PROGRAM OUTLINE REVIEW DATE: September 2023

GENERAL PROGRAM DESCRIPTION:

This 7-week program delivers the skills, knowledge and training required for Level 1 of the 4-Year Carpenter Apprenticeship program. Program competencies covered include the safe and effective use of hand tools, portable power tools, and stationary power tools, skills for interpreting building codes and bylaws, skills in surveying, and rigging and hoisting of equipment. Apprentices learn techniques related to concrete formwork and wood frame construction. This program includes classroom theory, demonstrations and practical hands-on training in a carpenter shop setting. Safe work habits are emphasized, reinforced and practiced throughout the program.

Credentials Granted: Upon successful completion of the 7 week Level 1 Carpenter Apprenticeship program, students receive:

- Level 1 Technical Training credit of the Carpenter Apprenticeship program from the Industry Training Authority.

Delivery: This program is delivered 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:

Don Hampton, Carpenter RSE

Signature

APPROVAL SIGNATURES:

Department Head

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Department Head Signature

Dean Signature

EDCO

Valid from: March 2018 – September 2023

Education Council Approval Date

PROGRAM PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: Sponsored Carpentry apprentice, **OR**
Journeyman carpenter (for skills upgrading).

Flexible Assessment (FA):

Credit can be awarded for this course 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 1
Carpentry, 1st Canadian Edition by Vogt and Naugh
Building Trades Blueprint Reading – Residential
WCB Regulations (not necessary to purchase)

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://www.cotr.bc.ca/bookstore/cotr_web.asp?IDNumber=164 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 111 Safe Work Practices**
- Apply Shop and Site Safety Practices
 - Apply Personal Safety Practices
- CAAP 112 Documentation and Organizational Skills**
- Use construction drawings and specifications
 - Interpret building codes and bylaws
 - Plan and organize work
 - Perform trade math
- CAAP 113 Tools and Equipment**
- Use hand tools
 - Use portable power tools
 - Use stationary power tools
- CAAP 114 Survey Instruments and Equipment**
- Use leveling instruments and equipment
- CAAP 115 Access, Rigging and Hoisting Equipment**
- Use ladders, scaffolds and access equipment
 - Use rigging and hoisting equipment

CAPP 116 Site Layout

- Lay out building locations

CAAP 117 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 118 Wood Frame Construction

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

CAAP 119 Building Science

- Control the forces acting on a building

PROGRAM COMPETENCIES:

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

- apply safe work practices in the shop and on work sites;
- use construction drawings and specifications;
- interpret building codes and bylaws;
- use and maintain hand tools, portable power tools and stationary power tools properly and safely;
- use leveling instruments and equipment;
- use ladders, scaffolds, rigging and hoisting equipment properly and safely;
- build concrete formwork and place and finish concrete;
- describe wood frame construction and select framing materials;
- build floors, stairs, decks and exterior structures; and
- describe the forces acting on a building.

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%

*See last page for competencies

Note: When the apprentice completes the program the instructor will report evaluation results to the Industry Training Authority.

Passing Grade –Final Mark minimum 70% overall

CARPENTER APPRENTICESHIP LEVEL 1			
COTR COURSE	SUBJECT COMPETENCIES	THEORY WEIGHTING	PRACTICAL WEIGHTING
CAAP 111	Safe Work Practices	6%	3%
CAAP 112	Documentation and Organizational Skills	16%	12%
CAAP 113	Tools and Equipment	17%	16%
CAAP 114	Survey Instruments and Equipment	6%	6%
CAAP 115	Access, Rigging and Hoisting Equipment	15%	15%
CAAP 116	Site Layout	2%	3%
CAAP 117	Concrete Formwork	20%	30%
CAAP 118	Wood Frame Construction	16%	15%
CAAP 119	Building Science	2%	0%
	Total	100%	100%
Calculated by the Training Provider Carpenter (in-school theory and practical subject competency weighting)		50%	50%
Training Provider enters final in-school mark into ITA Direct Access		IN-SCHOOL %	

<p>Calculated by ITA: In-school Mark ITA Direct Access calculates the percentage weighting once the in-school mark is entered. Combined theory and practical subject competency multiplied by</p>	80%
<p>Calculated by ITA: Standard Level Exam Mark ITA Direct Access will calculate the percentage weighting once the standard level exam marks have been entered. The exam score is multiplied by</p>	20%
<p>Calculated by ITA: Final Mark The final mark for determining credit is calculated by ITA Direct Access.</p>	FINAL%

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

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%

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 programs is revised on an ongoing basis to ensure relevance to changing educational, employment, and marketing needs. The instructor will endeavour to provide notice of changes to students as soon as possible. The instructor reserves the right to add material to programs.