



Carpenter Apprenticeship Level 2 – CAAP2 Trades Training

Program Outline

PROGRAM IMPLEMENTATION DATE: November 2003
OUTLINE EFFECTIVE DATE: April 2019
PROGRAM OUTLINE REVIEW DATE: September 2024

GENERAL PROGRAM DESCRIPTION:

This 7-week program delivers the technical training required for Level 2 of the four-level Carpenter Apprenticeship program. Apprentices develop knowledge and practical skills related to safe work practices; portable and stationary power tools and oxy-fuel equipment; building codes and bylaws; construction drawings and specifications; survey instruments and equipment; site layout; concrete formwork; wood frame construction; finishing materials; and building science. This program includes classroom theory, demonstrations and practical hands-on training in a carpenter shop setting. Safe work habits related to the carpenter trade are emphasized and reinforced throughout the program.

Credentials Granted: Upon successful completion of the 7-week Level 2 Carpenter Apprenticeship program, students receive:

- Level 2 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:

Mark Knudsgaard, CARP IP, RSE

Signature

APPROVAL SIGNATURES:

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Dean Signature

EDCO

Valid from: April 2019 – September 2024

Education Council Approval Date

PROGRAM PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: Sponsored Carpenter apprentice who has successfully completed Level 1 of the Carpenter Apprenticeship program (harmonized curriculum) or Carpenter Foundation program (harmonized curriculum)

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):

Carpenter Apprenticeship Program Level 2 (two binder set) 2017
Carpentry Third Canadian Edition by Vogt and Nauth
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 201 Documentation and Organizational Skills

- Use construction drawings and specifications
- Interpret building codes and bylaws

CAAP 202 Tools and Equipment

- Use portable power tools
- Use stationary power tools
- Use oxy-fuel equipment

CAAP 203 Survey Instruments and Equipment

- Use site layout equipment

CAAP 204 Site Layout

- Lay out building locations

CAAP 205 Concrete Formwork

- Build slab-on-grade forms and suspended slab forms
- Place and finish concrete

CAAP 206 Wood Frame Construction

- Select framing materials
- Build wall systems
- Build stair systems
- Build roof systems

CAAP 207 Finishing Materials

- Describe roofing materials
- Install doors and hardware
- Install windows and hardware
- Install exterior finishes

CAAP 208 Building Science

- Control the forces acting on a building
- Control heat and sound transmission
- Control air and moisture movement in buildings

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 portable power tools, stationary power tools and oxy-fuel equipment properly and safely
- use site layout equipment
- layout building sites, prepare building sites and apply evacuation and shoring practices
- use concrete types, materials, additive and treatments, and place and finish concrete
- select concrete forming systems, build vertical and footing framework and install specialized formwork, build concrete stair forms
- build slab-on grade and suspended slab forms
- select framing materials
- build wall systems, stair systems and roof systems
- describe roofing materials and install doors and hardware, windows and hardware and exterior finishes
- control the forces acting on a building, heat and sound transmission, and air and moisture movement in buildings

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%

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

Students must maintain an acceptable level of attendance (as described in the College Policies and Procedures), complete all assigned projects and pass all exams to successfully complete the program.

CARPENTER APPRENTICESHIP LEVEL 2			
COTR COURSE	SUBJECT COMPETENCIES	THEORY WEIGHTING	PRACTICAL WEIGHTING
CAAP 201	Documentation and Organizational Skills	13%	13%
CAAP 202	Tools and Equipment	10%	10%
CAAP 203	Survey Instruments and Equipment	8%	9%
CAAP 204	Site Layout	7%	7%
CAAP 205	Concrete Formwork	10%	10%
CAAP 206	Wood Frame Construction	20%	22%
CAAP 207	Finishing Materials	25%	22%
CAAP 208	Building Science	7%	7%
	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 > 70%
NCG	No Credit Granted < 70%

Successful completion of the in-school training 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 endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add material to programs.