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# ACAP 4002: Auto Body and Collision Technician Apprentice Level 4

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## EFFECTIVE DATE

April 2024

## DEPARTMENT

Auto Collision Apprenticeship

## DESCRIPTION

This 6 week course provides the Level 4 technical training component of the provincial Auto Body and Collision Technician apprentice program. In this course students learn frame repairs including: pulling equipment and maintenance, structural damage analysis, pulling and sectioning considerations on major structural components. Students learn to create estimate supplements and sublet repairs, quality control, mechanical components, and service requirements of advanced vehicle electronics. Students also learn the importance of the mentor role in the workplace. Students achieving a grade of 70% or greater are eligible to: - receive ITA Technical Training credit for Auto Body and Collision Technician Level 4 - write the ITA Interprovincial Red Seal Exam

## CREDITS

8.0

## YEAR OF STUDY

1st Year Post-secondary

## PREREQUISITES

Students must be registered with the Industry Training Authority of B.C. (ITA) and have received an Apprentice Identification number; and ACAP 3002 Auto Body and Collision Technician Apprentice Level 3, or ACAP 3003 Auto Body and Collision Technician Apprentice Level 3 (E-pprentice)

## COREQUISITES

None

## COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Describe maintaining frame pulling equipment (B8).
- Interpret estimates and create supplements and sublets (D6).
- Understand and use techniques to be an effective mentor (E2).
- Understand and use techniques to support a diverse and inclusive work environment (E2).

- Perform final quality control measures (N2).
- Prepare a damage analysis report considering point-to-point and 3D measurement findings (P1).
- Describe removing and handling components for access (P2).
- Perform vehicle set up for conventional frame repair (P3).
- Describe pulling techniques (Q1).
- Perform a complex frame structural repair (Q1).
- Identify fundamentals of steering, suspension and braking systems (U3).
- Remove and install steering, suspension and braking system components (U4-U5).
- Describe servicing advanced electronic components (V5).

## PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 100

Lab: 80

## INSTRUCTIONAL STRATEGIES

This course provides a wide range of opportunities for student learning in classroom and shop settings. In addition to hands-on practical experience at VCC's own state of the art automotive collision repair and refinishing facility learning activities such as lectures, demonstrations, individual and group project based learning strategies may be used throughout the course. Students may access learning materials and course evaluations using VCC's online course management system. Attendance and Participation Given the industrial nature of this course professional and safe work practice is of critical importance. A student may be withdrawn from the course for safety concerns and/or an inability to meet professional practice standards due to inadequate attendance. Excused absences are those reported in advance of a scheduled class, wherever possible, or if appropriate documentation can be provided for the time missed. Other absences will be reported as unexcused, and an excess of unexcused absences may result in a student being withdrawn from the course.

## GRADING SYSTEM

Percentages-ITA

## PASSING GRADE

70%

## EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	30	Formative theory quizzes
Exam	20	Summative theory exams

Assignments	50	In-shop practical evaluations
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## COURSE TOPICS

- Estimating: Supplements and Sublets
- Quality Controls
- Pulling Equipment and Maintenance
- Structural Repair Preparation:
  - Component Removal for Access
  - 3D Measuring
  - Damage Analysis
  - Setup for Conventional Pulling
- Major Structural Pulling
- Major Structural Sectioning
- Removing and Installing Mechanical Components:
  - Steering
  - Suspensions
  - Brakes
- Handling Advanced Electronic Components
- Mentoring in the Workplace

## LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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**Annacis Island campus**

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Generated at: 5:32 pm on Apr. 10, 2021