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# ACAP 3001: Auto Collision Repair Technician Apprenticeship Level 3

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## EFFECTIVE DATE

January 2019

## DEPARTMENT

Auto Collision Apprenticeship

## DESCRIPTION

This course provides the Level 3 technical training component of the provincial Motor Vehicle Body Repairer (Automotive Collision Repair Technician) apprenticeship program. Course topics include structural repair and measurement procedures, identifying the various components of suspension and steering systems, and surface preparation and refinishing techniques. The course also focuses on repair estimates and business relations, and provides a review of levels 1 and two in preparation for the interprovincial exam (Red Seal). Students achieving a grade of 70% or greater are eligible to write the ITA interprovincial Red Seal exam and to receive 180 hours Work-Based Training credit.

## CREDITS

7.0

## YEAR OF STUDY

3rd Year Post-secondary

## PREREQUISITES

Students must be registered with the Industry Training Authority of BC (ITA), have received an Apprenticeship Identification number and received ITA credit for Auto Collision Repair Technician Apprenticeship Level 1 and Level 2 Technical Training.

## COREQUISITES

None

## COURSE LEARNING OUTCOMES

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

- J1 Identify the various structural designs
- J2 Identify collision theory concepts
- J3 Identify damage assessment techniques
- J4 Identify measuring theory and gauging equipment

- J4-AC Perform tram gauge measurement procedures to determine structural conditions with accuracy
- J5 Identify various measuring equipment
- J6 Identify unibody anchoring techniques
- J7 Identify conventional frame anchoring techniques
- J8 Describe straightening techniques
- J9 Describe pulling techniques
- J10 Describe structural panel replacement procedures
- J11-AC Prepare a structural damage analysis report
- J12-AC Perform a structural repair in an accurate and safe manner using standard procedures
- J13-AC Perform a sectioning procedure to a closed box structural member in an accurate and safe manner using standard procedures
- K1 Identify MacPherson strut suspension systems
- K2 Identify short and long arm suspension systems
- K3 Identify the various types of rear suspension systems
- K4 Identify R&I procedures for suspension systems
- K5 Describe rack and pinion steering systems
- K6 Describe parallelogram steering systems
- K7 Identify wheel alignment angles
- L1 Interpret estimating information
- L2 Interpret business relations
- M1 Identify preparation of various substrates and topcoats
- M2 Describe mixing and application of primers
- M3 Describe refinishing corrosion protection methods
- M4 Describe the refinishing process
- M4-AC Prepare and apply refinishing materials in a safe manner using manufacturers' recommended procedures and techniques
- M5 Identify the detailing process

## **PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)**

None

## **HOURS**

Lecture: 125

Lab: 25

Other: 0

## **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.

## GRADING SYSTEM

Percentages-ITA

## PASSING GRADE

70

## EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	30	Formative theory quizzes (10-15)
Final Exam	20	Summative theory exam
Assignments	50	In-shop practical evaluations (7-10)

## COURSE TOPICS

- Structural Repair
- Suspension and Steering
- Insurance Estimating
- Refinishing

## 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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