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ACAP 2001: Auto Collision Repair Technician Apprenticeship Level 2

EFFECTIVE DATE

January 2019

DEPARTMENT

Auto Collision Apprenticeship

DESCRIPTION

This course provides the Level 2 technical training component of the provincial Motor Vehicle Body Repairer (Automotive Collision Repair Technician) apprenticeship program. Students learn the theoretical and practical components of MIG welding aluminum, advanced sheet metal repair, metal adhesive bonding processes and repair procedures for plastic composites and fibre reinforced plastics. In addition, this course focuses on electrical and electronics components, airbags, seat belt assemblies, vehicle operating systems, cooling systems, and air conditioning operations. Students achieving a blended VCC / ITA (level exam) grade of 70% or greater are eligible to advance to Level 2 Technical Training and to receive 150 hours Work-Based Training credit.

CREDITS

5.5

YEAR OF STUDY

2nd 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 Technical Training.

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- D6 Describe setup procedures for MIG welding aluminum
- D7-AC Perform various aluminum MIG welds
- E5 Describe productive organizational skills
- E6 Describe complex damage analysis procedures

- E7 Describe roughing procedures for repairing sheet metal
- E8 Describe plastic filler procedures for damage to complex sheet metal areas
- E9-AC Perform a complex sheet metal repair
- E10 Describe panel replacement and repair techniques
- E10-AC Perform a partial/simulated door skin replacement
- E11 Describe the characteristics of aluminum
- E12 Describe basic sheet aluminum repairs
- F4 Describe fibreglass and sheet mold compound repair equipment
- F5 Describe repair procedures for repairing fibreglass and sheet mold compound
- F6-AC Perform two-sided fibreglass and sheet mold compound repairs
- I1 Identify seat belt assemblies
- I2 Identify airbag system components
- I3 Describe engine cooling systems
- I4 Describe air conditioning system components and servicing
- I5 Identify vehicle systems
- I6 Identify electrical/electronics on-board procedures
- I6-AC Repair a damaged wire maintaining acceptable circuit resistance

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 75

Lab: 50

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

COURSE TOPICS

- Aluminum Welding
- Sheet Metal Repair
- Plastics and Composites
- Mechanical Components

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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