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ACRF 1150: Metal Panels and Components

EFFECTIVE DATE

September 2021

DEPARTMENT

Automotive Collision Repair

DESCRIPTION

This course introduces students to the characteristics of sheet metal, types of sheet metal damage and sheet metal tools and equipment. Students perform minor sheet metal damage repairs using a variety of panel shaping and filler contouring techniques. Additionally, students remove and install various body panels and components to industry fit and finish standards.

CREDITS

7.5

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

None

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Describe structural and cosmetic sheet metal body components.
- Describe steel types and strength characteristics and the affects of repair processes.
- Identify sheet metal damage conditions.
- Prepare damaged panels for repair processes.
- Remove various exterior body panels and their components.
- Describe metal repair and shrinking procedures.
- Perform minor repairs on sheet metal (steel) exterior body panels to restore original contours and dimensions.
- Install various exterior body panels and components to industry standards for fit and finish.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 50

Lab: 125

INSTRUCTIONAL STRATEGIES

Instructional strategies include: Lectures, demonstrations, group work, individual work, field trips, and project work in an authentic shop environment.

GRADING SYSTEM

Percentages-ITA

PASSING GRADE

70

EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	30	Formative theory (quizzes and assignments)
Exam	20	Summative theory
Assignments	30	Performance evaluations
Participation	20	Active participation, teamwork, and safety demerits

COURSE TOPICS

- Sheet Used in Vehicle Construction

- Bolted-On Parts Replacement
- Fitting and Adjusting
- Corrosion Protection
- Repairing Damaged Exterior Body Panels
- Body Fillers and Sanding
- Additional Repair Methods

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>.

Broadway campus

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Downtown campus

250 West Pender Street
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