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## ACRF 1151: Metal Panels and Components (E-pprentice)

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### EFFECTIVE DATE

November 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

6.0

### 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

Lab: 25

Practicum: 100

Self-paced: 50

Other: 150

## INSTRUCTIONAL STRATEGIES

Instructional strategies include: Self-paced and scheduled online learning assignments, 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	25	Performance evaluations
Practicum	25	Performance evaluations (Instructor/ Workplace as per Workplace Evaluation Guide)

## 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>.

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