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## ACRT 1240: Welding, Heating and Cutting Steel 2

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### EFFECTIVE DATE

January 2019

### DEPARTMENT

Automotive Collision Repair

### DESCRIPTION

This course builds on the GMAW processes of ACRT 1120 adding vehicle structural welding. Then, students learn various ways to heat and cut steel using oxyacetylene and induction heating equipment. Finally, students will be introduced to the Squeeze Type Resistance Spot Welding (STRSW) process and equipment. This course is part of the full-time Auto Collision Repair Technician High School Certificate program.

### CREDITS

1.0

### YEAR OF STUDY

1st Year Post-secondary

### PREREQUISITES

Successful completion of ACRT 1120 Welding, Heating and Cutting Steel 1

### COREQUISITES

None

### COURSE LEARNING OUTCOMES

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

- Perform various GMA welds on sheet steel
- Describe and use various methods to heat metals
- Describe and use resistance spot welders

### PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 10

Lab: 15

## 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, attendance and safety demerits

## COURSE TOPICS

- Squeeze-Type Resistance Spot Welding
- Steel Unitized Structures, Technologies and Repairs

## 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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Generated at: 3:48 am on Jan. 24, 2021