



v c c . c a

ACRD 1140: Welding, Cutting and Heating Steel 1

EFFECTIVE DATE

May 2019

DEPARTMENT

Auto Collision Refinishing Dip

DESCRIPTION

Students begin this course learning to safely perform oxyacetylene welding, cutting and heating operations to establish basic skills as a foundation for additional welding processes. Then, students learn to perform gas metal arc welding processes as well as troubleshooting, equipment maintenance and safe welding practices. Students also perform plasma arc cutting procedures. The course concludes with an industry standard weld performance qualification. This course is part of the full-time Auto Collision Repair and Refinishing Diploma program.

CREDITS

3.5

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 oxyacetylene safety
- Perform oxyacetylene procedures
- Describe Gas Metal Arc Welding (GMAW) safety
- Describe the GMA welding process
- Perform various GMA welds on sheet steel
- Describe and use plasma arc cutters

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 37.5

Lab: 50

INSTRUCTIONAL STRATEGIES

Instructional strategies may include lectures, demonstrations, assigned homework, 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
Assignments	25	Quizzes and Assignments (formative - theory)
Exam	20	Theory exam (summative - theory)
Assignments	30	Ongoing observations of workplace behavior and use of personal protective equipment.
Participation	25	Observable active participation and team work

COURSE TOPICS

- Steel Used In Vehicle Construction
- Oxyacetylene Welding and Cutting
- Steel Unitized Structures, Technologies and Repairs
- Steel Gas Metal Arc Welding
- Plasma Arc Cutting

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

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
V6B 1S9

Annacis Island campus

1608 Cliveden Avenue
Delta, B.C. Canada
V3M 6P1

604.871.7000

VCC.ca

Generated at: 3:21 pm on Apr. 11, 2021