



ARPT 1134: Restoring Corrosion Protection

EFFECTIVE DATE

DEPARTMENT

Automotive Refinish Prep - Voc
DESCRIPTION

Students apply the theory of corrosion, identify problems caused by a lack of corrosion protection, identify vehicle protection from the effects of corrosion and identify anti-corrosion compounds used in the automotive refinishing industry. This course is part of the full-time Automotive Refinishing Prep Technician, Automotive Refinishing Prep Technician - High School Programs

CREDITS

2.0

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:

- Explain corrosion
- Explain galvanic corrosion
- Describe sacrificial corrosion
- Identify the Material Safety Data Sheet (MSDS) of anti-corrosion materials
- Identify anti-corrosion material application methods
- Identify incorrect corrosion protection
- Identify damage caused by incorrect corrosion protection
- Describe anti-corrosion application equipment
- Apply anti-corrosion materials
- Identify petroleum-based anti-corrosion materials
- Identify acid-based anti-corrosion materials

- Describe self-etching primers
- Obtain manufacturer's corrosion protection recommendations
- Identify components of the vehicle that require corrosion protection
- Describe types of protection required for each vehicle component
- Describe the steps required to provide corrosion protection
- Apply anti-corrosion compounds
- Describe the use of chip guards

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 25

Other: 25

INSTRUCTIONAL STRATEGIES

Instructional strategies include: Lectures, demonstrations, case studies, 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	15	Quizzes and Assignments (formative - theory)
Exam	20	Theory exam (summative - theory)
Project	50	Practical assignments (preparation, task completion, cleanup, document writing-service report etc.)
Other	15	Observable active participation and team work

COURSE TOPICS

- Corrosion Types
- Sacrificial Corrosion
- Material Safety Data Sheet (MSDS) of Anti-corrosion Materials
- Application Methods
- Corrosion Protection
- Application Equipment
- Application of Anti-corrosion Materials
- Petroleum-based Anti-corrosion Materials
- Acid-based Anti-corrosion Materials
- Self-etching Primers
- Manufacturer's Recommendations
- Corrosion Protection for Vehicle Components
- Steps Required to Provide Corrosion Protection
- Application of anti-corrosion Compounds
- Chip Guards

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: 9:20 pm on Jan. 15, 2021