



ARPT 1142: Handling of Vehicle Components

EFFECTIVE DATE

DEPARTMENT

Automotive Refinish Prep - Voc
DESCRIPTION

Students identify a repair order/estimate sheet, remove all vehicle interior and exterior components and work safely around various vehicle operating systems. This course is part of the full-time Automotive Refinishing Prep Technician, Automotive Refinishing Prep Technician - High School Programs

CREDITS

1.0

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 estimate sheets and their purpose.
- Explain estimate sheet repair procedures and times.
- Write a refinishing estimate
- Describe work orders
- Explain the method used to organize materials
- Describe the skills required to communicate with others
- Identify automotive fastening devices
- Trim component masking and removal procedures
- Describe when to remove or mask vehicle trim
- Describe how to safely handle computer and electrical components
- Describe the procedure used to disconnect a battery
- Demonstrate how to disconnect a battery

- Describe the components of a cooling and air conditioning system
- Describe the function of each component of the cooling and air conditioning system
- Describe safety and environmental issues related to each system
- Perform a safety inspection
- Describe the vehicle propane and natural gas systems
- Explain storage and use of propane in the vehicle
- Explain safety procedures to use in the spray booth and bake oven
- Describe vehicle wheel types and their fasteners
- Explain safe jacking techniques
- Describe correct torque wrench use
- Safely remove and replace vehicle wheels

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 12.5

Other: 12.5

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
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COURSE TOPICS

- Estimate Sheets and Repair Orders
- Removing Versus Masking Trim
- Precautions with Electrical Components
- Cooling and Air Conditioning (A/C) Systems
- Dangers of Alternate Fuels
- Wheel Removal and Replacement

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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