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ACRF 1130: Tools, Equipment and Maintenance

EFFECTIVE DATE

September 2021

DEPARTMENT

Automotive Collision Repair

DESCRIPTION

Students learn to identify, operate and maintain hand, electric and pneumatic tools. Students are introduced to pneumatic power systems, basic refinishing equipment and hydraulic equipment used in the industry. This course also focuses on safe vehicle lifting procedures using various lifting equipment.

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 hand, electric and pneumatic tools used during collision and refinishing repairs.
- Perform various tool and equipment maintenance procedures according to manufacturers' recommendations and industry standards.
- Use hand, electric and pneumatic tools appropriate for various tasks in a safe manner.
- Perform test spray to demonstrate proper spray gun setup, cleaning and maintenance.
- Perform vehicle lifting and lowering procedures using various equipment according to Provincial and National safety standards.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 50

Lab: 25

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

COURSE TOPICS

- Hand Tools
- Electric and Pneumatic Tools and Equipment
- Hand Tools for Collision Repair
- Basic Spray Gun Use and Maintenance
- Hydraulic Equipment and Vehicle Lifting

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
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Downtown campus

250 West Pender Street
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Annacis Island campus

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