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AUTO 1132: Tools and Equipment

EFFECTIVE DATE

DEPARTMENT

Automotive Service Technician
DESCRIPTION

This course covers principles of selection and use of technician hand tools. Topics include measuring instruments, air and electric power tools, threaded and non threaded fasteners, removing and replacing fasteners, and aspects of maintaining and shopping tools and equipment. This course is part of the full-time Automotive Service Technician Foundation Program.

CREDITS

5.5

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 various general hand tools
- Describe special application hand tools
- Use various general hand tools
- Identify and use threaded fastener terminology
- Select and use threaded fasteners
- Describe and use torque fasteners to specifications
- Repair damaged threads
- Select and use non-threaded fasteners
- Remove damaged nuts, bolts or studs
- Select and use lifting and jacking equipment
- Select and use presses and pullers

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 40

Other: 97.5

INSTRUCTIONAL STRATEGIES

Classroom activities are lectures, demonstrations, audio-visual presentations and exercises. Practical experience takes place in an active shop setting. The extensive workshop experience provides reinforcement of theoretical concepts, develops hand skills, and familiarity with repair procedures, electronic equipment and standard safety procedures. All modules are designed to enable the student to work independently and in groups.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

B-

Lab Work		
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COURSE TOPICS

- General hand tools
- Fasteners
- Threaded fasteners
- Torque fasteners
- Threads
- Lifting and jacking equipment
- Presses and pullers
- Air compressors
- Cleaning equipment
- Manuals

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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