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ATAP 4011: Automotive Service Technician Harmonized Apprentice Level 4

EFFECTIVE DATE

September 2019

DEPARTMENT

Automotive Tech Apprenticeship

DESCRIPTION

This course provides Automotive Service Technician Level 4 Apprentices with the skills and knowledge required for the Automotive Service Technician Harmonized Level 4 certification as set by the Industry Training Authority (ITA). Learners will apply mentoring techniques, describe and repair Diesel engine support systems, as well as intake, exhaust and emission related diesel components. The learner will also identify, service, and describe automatic transmission and transaxle all-wheel drive systems, as well as four wheel drive components. The learner will service and repair instrumentation, entertainment and display systems; heating, ventilation and air conditioning systems; and body restraint components. The learner will describe and repair hybrid and electric vehicle systems.

CREDITS

9.0

YEAR OF STUDY

4th Year Post-secondary

PREREQUISITES

ATAP 3011 Automotive Service Technician Harmonized Apprentice Level 3

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Use mentoring techniques
- Diagnose and repair diesel engine support systems
- Diagnose and repair automatic transmissions and transaxles
- Diagnose and repair all-wheel (AWD) systems
- Diagnose and repair instrumentation, entertainment systems and displays

- Diagnose and repair heating, ventilation, air conditioning and comfort control systems
- Diagnose and repair restraint systems, body components, accessories and trim
- Diagnose and repair hybrid and electric vehicle systems

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 85

Lab: 125

INSTRUCTIONAL STRATEGIES

Instructional time is (approximately) 40% classroom and 60% practical activity. 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.

GRADING SYSTEM

Percentages-ITA

PASSING GRADE

70%

EVALUATION PLAN

Type	Percentage	Assessment activity
Lab Work	30	successful completion of Achievement criteria as per ITA 2017 AST outline.
Final Exam	30	
Quizzes/Tests	40	Quizzes measure each general area of competency within the course as per ITA 2017 AST outline.

COURSE TOPICS

- Mentoring techniques
 - Diesel fuel delivery and injection systems
 - Diesel intake and exhaust systems
 - Diesel emission control systems
 - Automatic transmissions and transaxles

All-wheel drive systems
Instrumentation, entertainment systems and displays
Heating , ventilation and air conditioning systems
Air flow control and heating systems
Refrigerant systems
Restraint systems
Hybrid and electric vehicle systems

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

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