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ATAP 1011: Automotive Service Technician Harmonized Apprentice Level 1

EFFECTIVE DATE

September 2017

DEPARTMENT

Automotive Tech Apprenticeship

DESCRIPTION

This course provides Automotive Service Technician Level 1 Apprentices with the skills and knowledge required for the Automotive Service Technician Harmonized Level 1 certification as set by the Industry Training Authority (ITA). Learners will work safely while providing general automotive maintenance services including lubrication and fluids, belts and hoses, exterior lamps, body trim and hardware, tires and wheels, non friction bearings and spindles and hubs and diagnosis and repair of drive and axle shafts. Additionally learners will assess, diagnose and service basic electrical systems, hydraulic, drum brake, disc brake, power assist and anti-lock brake systems, steering systems as well a suspension systems. Throughout the performance of these skills, learners will safely and effectively utilize hand, measuring, power tools while simultaneously demonstrating employability, communication and business skills, as well as implementation of specific safety protocols for hybrid and electric vehicles. Upon successful completion of this course, apprentices will be able to progress to Automotive Service Technician Harmonized Level 2 technical training.

CREDITS

9.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

ITA identification number is required.

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Maintain a safe work environment

- Use personal protective equipment
- Use tools and equipment
- Use hoisting and lifting equipment
- Use technical information
- Use communication techniques
- Diagnose and repair drive shafts and axles
- Diagnose and repair basic wiring and electrical systems
- Diagnose and repair starting and charging systems
- Diagnose and repair steering and control systems
- Diagnose and repair suspension and control systems
- Diagnose and repair braking and control systems
- Diagnose and repair tires,wheels,hubs and wheel bearings
- Diagnose and repair wind noises, rattles and water leaks
- Diagnose and repair interior and exterior components, accessories and trim
- Diagnose and repair latches, locks and movable glass
- Implement specific safety protocols for hybrid and electric vehicles

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 include 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 and standard safety procedures.

GRADING SYSTEM

Percentages-ITA

PASSING GRADE

70%

EVALUATION PLAN

Type	Percentage	Assessment activity
Final Exam	30	

Quizzes/Tests	40	Quizzes measure each general area of competency within the course as per ITA 2017 AST outline.
Lab Work	30	

COURSE TOPICS

- Safe work environment
 - Personal protective equipment
 - Tools and equipment
 - Fasteners, tubing, hoses, and fittings
 - Hoisting and lifting equipment
 - Technical information
 - Communication techniques
 - Drive shafts and axles
 - Basic wiring and electrical systems
 - Starting and charging systems
 - Steering systems
 - Suspension systems
 - Braking systems
 - Tires, wheels, hubs, and bearings
 - Restraint systems
 - Body components, accessories, and trim

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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