



VANCOUVER ISLAND  
UNIVERSITY

## **First day of Class Information and Booklist Automotive Service Technician**

### **First day of class:**

- ✓ Bring steel toed boots and safety glasses for the shop.
- ✓ Classroom/Shop: Bldg 150, Automotive Shop
- ✓ Automotive Service Technician Instructors office is located in Bldg 150, Automotive Shop

### **Classroom/shop hours:**

- ✓ Tuesday to Friday; 8am to 3pm
- ✓ Coffee time; 10am to 10:15am
- ✓ Lunch; 12 to 12:30pm
- ✓ End of day; 3:30pm

### **Instructor and Tool Room Contact #s:**

- ✓ Instructor(s): varies depending on the level (Dean Cadieux, Gary Doolin and Daryl Pushor)  
250-740-6148
- ✓ Auto Shop Tool Room: Kevin 250-740-6453

### **Study Skills:**

- ✓ It is recommended that you take notes in class and review them each night. Any questions that you have should be brought to the attention of the instructor either in class or in the shop. When studying you must consider all areas of the topic. The following is a list of things to consider when you are reviewing or studying for exams:
  - Terminology, you must learn the names of all components.
  - Basics of operation.
  - Troubleshooting and test procedures.
  - Repair procedures.
- ✓ Remember it is in your best interest to learn as much as possible when you attend your technical training session. Extra help with study techniques may be available for apprentices, who feel that they are not able to get the most out of each technical session, ask your instructor.



### Marking:

- ✓ Each technical training session is divided in to two parts when marking:
  - Theory; the average of marks achieved on both weekly and final exams give the overall theory mark. Your theory mark counts for approximately 80% of your final mark.
  - Practical; the number of shop projects completed and quality of work achieved determines the practical mark approximately 20% of your final mark
  - Final; theory + practical = Final Mark. You must obtain 70% or greater to pass the technical training.

### First Aid – All emergencies must be reported to 6600 – DO NOT CALL 911.

- ✓ Dial 6600 from an internal phone, or dial 250-740-6600 from an outside phone.
- ✓ Be prepared to tell the operator your:
  - Name
  - Campus location (building and room)
  - Nature of emergency (first aid, ambulance, police, fire)
  - Extent of the emergency and the number of person involved
- ✓ The PFAA (Primary First Aid Attendant) will respond to the emergency.
- ✓ Facilities Services Employees will direct the Emergency Response Vehicle(s) to the appropriate location.

Please report all injuries to your instructor immediately or as soon as possible.

### College closures for snow

- ✓ Listen for announcements on local radio, FM: WAVE 102.3, Wolf 106.9, CHLY 101.7
- ✓ College Switchboard 250-753-3245 after 6am

### Food Services

- ✓ Lunch is available on campus at the Student Activity Building (Bldg 185), the Cafeteria (Bldg300) or at Subway (Bldg 165)



### Student Cautions

- ✓ VIU has a non-smoking regulation in all buildings.
- ✓ Pay parking and speed regulations on campus are enforced.
- ✓ Instructors must OK any work to be done on student properties (Vehicle, boat, trailer, etc.).
- ✓ All tools, props, equipment and vehicles must be treated with respect; they must be used many times by many apprentices.
- ✓ Instructors are here to help you learn, but you are also responsible for how much and how well you learn.

### Course Outline & Textbooks

*Please note that some textbooks are used repeatedly in 2<sup>nd</sup> & 3<sup>rd</sup> year.*

<b>Level 1 Automotive Service Technician – 180hrs</b>		
V-101	14hrs	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Shop practices</li> <li>• Technical information</li> </ul>
V-102	20hrs	Tools: <ul style="list-style-type: none"> <li>• Basic &amp; Measuring</li> <li>• Thread Repair</li> <li>• Power Tools</li> <li>• Pipe, Tubing</li> <li>• Shop Equipment &amp; Safe Orientation</li> </ul>
V-103	68hrs	Steering & Suspension
V-104	41hrs	Brakes including A.B.S.
V-105	37hrs	<ul style="list-style-type: none"> <li>• Batteries</li> <li>• Basic Electricity</li> <li>• Electrical Circuitry</li> <li>• Meters</li> </ul>
<b>Textbooks</b>	<ul style="list-style-type: none"> <li>• Automotive Technology: A Systems Approach Pkg, Erjaveck, Edition 1 (also available online)</li> <li>• Notes Pamphlet</li> <li>• Learning Guides (Listed below)</li> </ul>	
<b>Learning Guides</b>	<ul style="list-style-type: none"> <li>• #7850001029 to 1057, excluding 1033-1036, 1053-1056</li> </ul>	



<b>Level 2 Automotive Service Technician – 180hrs</b>		
V-201	90hrs	20hrs; describe operation and theory of exhaust, cooling and lubrication systems of a gasoline engine. 70hrs; describe the operation and theory of a gasoline and diesel engine and repair as required.
V-202	44hrs	
V-202A	14hrs	Starting motors and related circuitry
V-202B	18hrs	AC charging systems and control circuitry
V-202C	12hrs	Auxiliary Electrical System
V-203	12hrs	Basic diesel engines and related basic injection systems
V-204	20hrs	Operation of air conditioning systems, including evac and recharge
V-205	4hrs	Retrofit
V-206	10hrs	H.R.A.I.
<b>Textbooks –</b> <i>approximately</i> \$330.00		<ul style="list-style-type: none"><li>• Automotive Technology: A Systems Approach Pkg, Erjaveck, Edition 1 (also available online)</li><li>• Engine Notes Pamphlets</li><li>• H.R.A.I. Manuals</li><li>• Air-conditioning Handouts</li><li>• Learning Guides (listed below)</li></ul>
<b>Learning Guides</b>	#780001058 to 1084, excluding 1071, 1073, 1074, 1078-1081 #7850001144 to 1146 #7850001091 to 1097, excluding 1094 and 1095	



<b>Level 3 Automotive Service Technician – 180hrs</b>		
V-301	75hrs	Describe and service standard ignition systems, electronic ignition systems and electronic engine controls.
V-302	28hrs	Describe composition of air and fossil fuels. Describe and diagnose carburetors. Describe and service fuel tanks and fuel pumps including EVAP, including OBD II
V-303	36hrs	Operation, servicing and fuel injection systems
V-304	20hrs	Operation of turbo, super chargers and alternative fuel systems.
V-305	21hrs	Operation and testing of emission control systems including OBD II
<b>Textbooks –</b> <i>Approximately \$300.</i>	<ul style="list-style-type: none"><li>• 3<sup>rd</sup> year notes pamphlets</li><li>• Advanced Engine Performance (Classroom and shop) Manuals</li><li>• Automotive Technology: A Systems Approach Pkg, Erjaveck, Edition 1 (also available online)</li><li>• Learning Guides (Listed below)</li></ul>	
<b>Learning Guides</b>	#7850001868 #7850001085 to 1125, excluding 1091-1097, 1106, 1122-1124	

<b>Level 4 Automotive Service Technician – 180hrs</b>		
V-401	28hrs	Clutches, standard transmission and transaxles
V-402	23hrs	Transfer cases
V-403	28hrs	Drive axles and differentials
V-404	88hrs	Automatic Transmissions
V-405	13hrs	Air care
<b>Textbooks –</b> <i>Approximately \$200.</i>	<ul style="list-style-type: none"><li>• Notes Pamphlet</li><li>• Automotive Technology: A Systems Approach Pkg, Erjaveck, Edition 1 (also available online)</li><li>• Learning Guides (listed below)</li></ul>	
<b>Learning Guides</b>	#7850001126 to 7850001148, excluding 1144-1146	