

# PROGRAM OF STUDY



Career Cluster: Transportation, Distribution, and Logistics

Career Cluster Pathway: Sales and Service

This Career Pathway Program of Study can serve as a guide along with other career planning materials as learners continue on a career path. Courses listed within this program are only recommended coursework and should be individualized to meet each learner's education and career goals. **Note:** Many items have links to external resources with more information.

REQUIRED CREDITS	GRADE	English/ Language Arts (4.0 credits)	Social Studies (2.5 credits)	Math (2.0 credits)*	Science (2.0 credits)	Fine Arts (1.0 credits)	Health/ Fitness (2.5 credits)**	Electives (6.5 credits)	Related Career & Technical/ Occupational (1.0 credits)  Certificate and Tech Prep (notation on HS and TP alignment)	SAMPLE Occupations Relating To This Pathway  (*indicates job in high demand) (☺ indicates a "green" job)	
<b>SECONDARY</b>	9	English 1 or Honors English 1	Pacific Northwest History (.5)	Algebra I  Geometry  <i>*Class of 2013 (add't 1.0 credit)</i>	Integrated Science or Adv Int Science	Credits from Art Courses  <u>or</u>  CTE Equivalent	Health (.5)	Elective courses (6.5)  <b>and</b>  Project Me  <b>and</b>  Other CAA requirements	<b><u>ASD CTE COURSE OPTIONS</u></b>  Car Care Intro to Auto Tech Auto Tech Advanced/Cooperative Work Experience Industrial Engineering Advanced Industrial Engineering Computer Programming Computer Programming II Marketing/School Store Work Based Learning CTE Grad Project  <b><u>LEADERSHIP</u></b>  Skills USA  <b><u>TECH PREP ARTICULATIONS</u></b>  Auto Tech Advanced – Grays Harbor College (5cr.)  Beginning Industrial Engineering – Bates (7.5cr.)  Computer Programming II – South Puget Sound Community College (5cr.)  <b><u>CERTIFICATION</u></b>  AYES Certification Refrigerant Handlers Certificate	<b><u>Little or No Preparation</u></b> <ul style="list-style-type: none"> <li>• Service Station attendant</li> <li>• Tire Repairers and Changers</li> </ul> <b><u>Some Preparation</u></b> <ul style="list-style-type: none"> <li>• Automotive Body and Related Repairers*</li> <li>• Automotive Glass Installers and Repairers</li> <li>• Bicycle Repairers</li> <li>• Cargo and Freight Agents</li> <li>• Parts: sales &amp; distribution</li> <li>• Production, Planning, and Expediting Clerks</li> <li>• Recreational Vehicle Service Technicians</li> <li>• Sailors and Marine Oilers</li> </ul> <b><u>Medium Preparation</u></b> <ul style="list-style-type: none"> <li>• Aircraft Mechanics and Service Technicians</li> <li>• Automotive Mechanics</li> <li>• Bus and Truck Mechanics and Diesel Engine Specialists*</li> <li>• Electrical and Electronics Installers and Repairers, Transportation Equipment</li> <li>• Electronic Equipment Installers and Repairers, Motor Vehicles</li> <li>• Farm Equipment Mechanics</li> <li>• Fleet Maintenance</li> <li>• Motorboat Mechanics</li> <li>• Motorcycle Mechanics</li> <li>• Outdoor Power Equipment and Other Small Engine Mechanics</li> </ul> <b><u>Considerable Preparation</u></b> <ul style="list-style-type: none"> <li>• CTE Secondary Education Teacher</li> <li>• Mobile Heavy Equipment Mechanics, Except Engines</li> </ul>	
	10	English 2 or Honors English 2	US History	<u>or</u>  Algebra II  <u>or</u>	Biology <u>or</u> AP Biology <u>or</u> Biotechnology <u>or</u> Horticulture <u>or</u> Natural Resources I		Credits from Health and Fitness Courses  <i>**Successfully completing two years of physical education and one semester of health is required for high school graduation.</i>				
	11	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II	Pre-Calculus  <u>or</u>  Calculus  <u>or</u>  CTE Equivalent							
	12	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II <b><u>and</u></b> CWP	(Students must pass a math competency test or have four years of math credits.)	Science Electives						

<b>Technical Certification</b> <i>(instruction provided through certified training and/or testing centers)</i>	<b>Apprenticeship Opportunities</b>	<b>2-yr or ATA Degree</b> <i>(Find specific colleges at <a href="http://www.checkoutcollege.com">www.checkoutcollege.com</a>)</i>	<b>4 –yr Degree or Advanced Training</b>
<p><b>ASE Certifications</b> (requires 2 yrs of work experience in addition to passing exams)</p> <ul style="list-style-type: none"> <li>• Automobile/Light Truck Certification</li> <li>• Automobile Service Consultant</li> <li>• Alternate Fuels Series</li> <li>• Medium/Heavy Truck</li> <li>• Truck Equipment</li> <li>• School Bus</li> <li>• Transit Bus</li> <li>• Collision Repair and Refinish</li> <li>• Damage Analysis and Estimating Certification</li> <li>• Engine Machinist</li> <li>• Parts Specialist</li> <li>• Advanced Engine Performance Specialist</li> <li>• Electronic Diesel Engine Diagnosis Specialist</li> <li>• Undercar Specialist Designation</li> </ul> <p><b>NATEF Certification Automobile</b></p> <ul style="list-style-type: none"> <li>• Suspension and Steering</li> <li>• Brakes</li> <li>• Electrical/Electronic Systems</li> <li>• Engine Performance</li> <li>• Engine Repair</li> <li>• Automatic Transmission/Transaxle</li> <li>• Manual Drive Train and Axles</li> <li>• Heating and Air Conditioning</li> </ul> <p><b>Collision Repair and Refinish</b></p> <ul style="list-style-type: none"> <li>• Painting and Refinishing</li> <li>• Structural Analysis &amp; Damage Repair</li> <li>• Non-structural Analysis and Damage Repair</li> <li>• Mechanical and Electrical</li> </ul>	<p>To learn more about Apprenticeship, visit <a href="#">Labor and Industries</a> website.</p> <p>Follow these steps to learn about the specific apprenticeships available in this pathway:</p> <p><b>STEP 1:</b> Link to <a href="#">Apprenticeship Registration and Tracking System</a></p> <p><b>STEP 2:</b> Search by using key words below or the SOC code listed</p> <ul style="list-style-type: none"> <li>• Auto Refinisher Technician (51-9122)</li> <li>• Auto Tech (49-3023)</li> <li>• Automotive Body (49-3021)</li> <li>• Automotive Mechanic (49-3023)</li> <li>• Automotive Partsman (43-5081)</li> <li>• Brake and Air System Technician (49-3021)</li> <li>• Drive Train Systems Tech (49-3023)</li> <li>• Glass Installer (49-3022)</li> <li>• Steering &amp; Suspension Tech (49-3023)</li> </ul> <p><b>STEP 3:</b> Click “View” and scroll down to find contact name and program standards for qualifications and how to apply</p>	<p><b>Autobody/Collision and Repair</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Bellingham Technical College</li> <li>• Clover Park Technical College</li> <li>• Green River Community College</li> <li>• Lake Washington Technical College</li> <li>• Renton Technical College</li> <li>• Seattle CC-South Campus</li> <li>• Spokane Community College</li> <li>• Walla Walla Community College</li> </ul> <p><b>Automotive Technology</b></p> <ul style="list-style-type: none"> <li>• Grays Harbor College and various other technical and community colleges</li> </ul> <p><b>Diesel Mechanics</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Bellingham Technical College</li> <li>• Centralia College</li> <li>• Clark College</li> <li>• Grays Harbor College</li> <li>• Lake Washington Technical College</li> <li>• Lower Columbia College</li> <li>• Seattle CC-South Campus</li> <li>• Skagit Valley College</li> <li>• Spokane Community College</li> <li>• Walla Walla Community College</li> </ul> <p><b>Heavy Equipment Maintenance</b></p> <ul style="list-style-type: none"> <li>• Clover Park Technical College</li> <li>• Lower Columbia College</li> </ul> <p><b>Marine Maintenance/Fitter and Ship Repair</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Olympic College</li> <li>• Skagit Valley College</li> </ul> <p><b>Motorcycle Maintenance and Repair</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Lake Washington Technical College</li> </ul> <p><b>Small Engine Mechanics and Repair</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Spokane Community College</li> </ul> <p><b>Vehicle Parts &amp; Accessories Marketing</b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> <li>• Renton Community College</li> <li>• Skagit Valley Community College</li> </ul>	<p><b>Automotive Engineering Technology/Technician</b></p> <ul style="list-style-type: none"> <li>• Walla Walla College</li> </ul> <p><b>Continued education and training</b> various ASE and NATEF certifications.</p> <p><b>CTE Secondary Education Teacher</b></p> <ul style="list-style-type: none"> <li>• Education Degree in a CTE program area with 2000 hours of related work experience</li> <li>• Industry Route Certificate requires 6000 hours of work experience in the field and completion of a state approved CTE Preparation Program along with passage of Basic Skills Math and English</li> </ul>

\*Data acquired from [www.workforceexplorer.com](http://www.workforceexplorer.com), [www.sbctc.edu](http://www.sbctc.edu), [www.careerclusters.org](http://www.careerclusters.org), and [www.edf.org/cagreenjobs](http://www.edf.org/cagreenjobs), Adapted from <http://www.nthurston.k12.wa.us/education/components/scrapbook/default.php?sectiondetailid=34988>