

# SKILLED AUTOMOTIVE & CONSTRUCTION TRADES

<b>Automotive Diesel Technologies</b>		<u>Courses must be taken in sequence:</u>	
		Automotive Diesel I (Year 1) CTS210/JTS210	
		Automotive Diesel II (Year 2) CTS211/JTS211	
		Automotive Diesel III (Year 3) CTS212/JTS212	
		Automotive Diesel IV (Optional Year 4) CTS213/JTS213	
Automotive Diesel Intern (Optional) CTS215			
<b>Grade: 9-12</b>	<b>3 Year Program</b>	<b>Program offered at: AHS</b>	
<p>Your skills will always be in demand across several industries.</p> <ul style="list-style-type: none"> <li>• Learn techniques and skills of basic automotive care in the first year of the program, including tire mounting, tire balancing, cooling systems, brake replacement, and oil changes.</li> <li>• Learn to use advanced computer diagnostics to troubleshoot and repair modern auto-diesel systems.</li> <li>• Perform repair, service, and preventive maintenance operations on auto-diesel engines, chassis, and powertrains.</li> <li>• Learn maintenance and repair of systems on medium-duty and heavy-duty equipment.</li> <li>• Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.</li> </ul>			Fee required

<b>Automotive Technologies</b>		<u>Courses must be taken in sequence:</u>	
		Automotive Technology I (Year 1) CTS161/JTS161	
		Automotive Technology II (Year 2) CTS162/JTS162	
		Automotive Technology III (Year 3) CTS163/JTS163 (9 credits from PCC available for Year 3)	
		Automotive Technology IV (Optional Year 4) CTS160/JTS160	
Automotive Technology Internship (Optional) CTS164			
<b>Grade: 9-12</b>	<b>3 Year Program</b>	<b>Program offered at: CDO</b>	
<p>This high-tech career is always in demand and cannot be outsourced overseas.</p> <ul style="list-style-type: none"> <li>• Learn all basic automotive techniques and skills, including tire mounting, tire balancing, cooling systems flushes, brake replacement, and oil changes.</li> <li>• Receive instruction on basic and advanced engine fundamentals.</li> <li>• Demonstrate understanding of electrical circuitry in transportation applications.</li> <li>• Work-based learning instruction to advance knowledge in suspension and brakes.</li> <li>• Analysis of engine performance and drivetrain.</li> <li>• Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.</li> </ul>			Fee required

<b>Construction Technology</b>		<u>Courses must be taken in sequence:</u>	
		Construction Technology I (Year 1) CTS165/JTS165	
		Construction Technology II (Year 2) CTS166/JTS166	
		Construction Technology III (Optional Year 3) CTS167/JTS167 (16 credits from PCC available for Year 3)	
		Construction Technology IV (Optional Year 4) CTS169/JTS169	
Construction Technology Internship (Optional) CTS168			
<b>Grade: 9-12</b>	<b>2 Year Program</b>	<b>Program offered at: CDO</b>	
<p>Be part of an exciting and ever-changing career that combines creativity and technology.</p> <ul style="list-style-type: none"> <li>• Learn to safely use hand tools and power tools and about staining/lacquering, estimating, carpentry, electrical, masonry, plumbing, sheet metal, and welding.</li> <li>• Gain experience in reading plans and developing skills through hands-on learning and application.</li> <li>• Complete small and large construction projects including playhouses, picnic tables, converting a mobile container to a home, and building a camping trailer.</li> <li>• Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.</li> </ul>			Fee required

<b>Welding</b>		<u>Courses must be taken in sequence:</u>	
		Welding Technologies I (Year 1) CTS236/JTS236	
		Welding Technologies II (Year 2) CTS237/JTS237	
Welding Technologies Internship (Optional Year 3) CTS238			
<b>Grade: 9-12</b>	<b>2 Year Program</b>	<b>Program offered at: AHS</b>	
<p>Learn how to heat metal for a wide range of opportunities in an industry always in need.</p> <ul style="list-style-type: none"> <li>• Apply technical knowledge and skills to join or cut metal surfaces.</li> <li>• Specialized instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.</li> </ul>			Fee required