



**Career and Technical Education Pathway  
Engineering and Applied Technology  
Diesel and Heavy Equipment Technology**

**Diesel and Heavy Equipment Technology Diploma**

The Diesel and Heavy Equipment Technology program at A-B Tech prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment, as well as stationary diesel engines in electrical generators and related equipment. With a completed diploma, students are prepared for employment in a variety of positions including Bus and Truck Mechanic with a median salary in North Carolina of \$16.50 per hour (U.S. Department of Labor, 2015).

<b>GENERAL EDUCATION COURSES</b> (certificate general education is optional)			
Course Prefix/Num	Course Title		
<a href="#">ENG 110</a> *	Freshman Composition	3	SHC
<a href="#">PHY 121</a>	Applied Physics I	4	SHC
<b>Total SHC for General Education Courses:</b>		<b>7</b>	<b>SHC</b>
<b>CORE COURSES</b>			
Course Prefix/Num	Course Title		
<a href="#">HET 110</a>	Engines	6	SHC
<a href="#">HET 119</a>	Mechanical Transmissions	3	SHC
<a href="#">HET 125</a>	Preventative Maintenance	2	SHC
<a href="#">TRN 110</a>	Intro to Transport Tech	2	SHC
<a href="#">TRN 120</a>	Basic Transportation Electricity	5	SHC
<a href="#">TRN 120A</a>	Basic Transportation Electricity Lab	1	SHC
<b>Total SHC for Core Courses:</b>		<b>19</b>	<b>SHC</b>
<b>OTHER MAJOR COURSES</b>			
Course Prefix/Num	Course Title		
<a href="#">HET 115</a>	Electronic Engines	3	SHC
<a href="#">HET 231</a>	Medium-Heavy Duty Brake Systems	2	SHC
<a href="#">HET 233</a>	Suspension and Steering	4	SHC
<a href="#">HYD 112</a>	Hydraulics Medium/Heavy Duty	2	SHC
<a href="#">MEC 111</a>	Machine Processes I	3	SHC
<a href="#">TRN 140</a>	Transportation Climate Control	2	SHC
<a href="#">WLD 112</a>	Basic Welding Processes	2	SHC
<b>Total SHC for Other Major Courses:</b>		<b>18</b>	<b>SHC</b>
<b>OTHER REQUIRED COURSES</b>			
Course Prefix/Num	Course Title		
<a href="#">ACA 115</a>	Success and Study Skills	1	SHC
<b>Total SHC for Other Required Courses:</b>		<b>1</b>	<b>SHC</b>
<b>Total SHC for Program</b>		<b>45</b>	

\* Requires benchmark/placement testing

**Estimated Costs:**

Textbooks:	\$330
Consumable Supplies:	\$40-90 per semester
Tools/Instruments:	\$320 or more depending on the quality and source, please see your advisor for details.