Grades 11-12 Advanced Design Applications, Quarter 4, Revised 2015-16

Big Ideas/Key Concepts: Students will demonstrate leadership, citizenship and teamwork skills. Students will use tools, materials, equipment and other technology resources. Students will develop a knowledge and understanding of the Manufacturing Technologies. Students will design and experiment with several models in this technology.

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<th>Standards</th>
<th>Student Friendly “I Can” Statements</th>
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| **Standard 1.0**  
Demonstrate leadership and teamwork skills required for success in the workplace | I can work individually or as a team on a given project. |
| **Standard 2.0**  
Safely use tools, materials, equipment and other technology resources. | I can safely use tools and materials in the construction of a project.  
I can analyze and differentiate between materials and processes utilized to manufacture products. |
| **Standard 3.0**  
Demonstrate knowledge of and skills related to Manufacturing Technologies. | I can understand how customer, societal, and environmental concerns affect the design of products.  
I can explore factors that affect quality control in the manufacturing process.  
I can utilize the engineering design process while solving a manufacturing technology problem.  
I can understand the use of sensors, relays and switches in the manufacturing system. |