

**Department:** Industrial/Technology Education      **Course Title:** Transportation & Energy Technology

**Course #:** 70704W

**Grades:** 9-12

**DESCRIPTION OF COURSE:** In this course, students use the technological method to design and build models of transportation and energy systems. Creating working models of planes, boats, race cars, and rockets enable students to apply math, science, and technology concepts as they compete to engineer the best possible system.

<b>REQUIRED TOPICS OF STUDY</b>	<b>SUGGESTED INSTRUCTIONAL TIME</b>	<b>STANDARDS/ ASSESSMENT ANCHORS</b>
<i>Measurement</i>	<i>1 Periods / Continuous</i>	<i>3.6.10.B; 3.7.10.A; 3.7.10B</i>
<i>Introduction to energy</i>	<i>15 Periods</i>	<i>3.6.10.B; 3.7.10.A; 3.7.10.B</i>
<i>CAD – SolidWorks Model Smart</i>	<i>10 Periods</i>	<i>3.6.10.B; 3.6.10.C; 3.7.10.A; 3.7.10.B; 3.7.10.D; 3.8.10.B</i>
<i>Electrical Power systems</i>	<i>10 Periods</i>	<i>3.4.10.B; 3.4.10.C; 3.7.10.A; 3.7.10.B,3.8.10.B</i>
<i>Basic Machine Safety</i>	<i>1 Periods / Continuous</i>	<i>3.7.10.A</i>
<i>Structural Design</i>	<i>10 Periods</i>	<i>3.6.10.C; 3.7.10.A; 3.7.10.B; 3.8.10.B</i>
<i>Transportation systems</i>	<i>25Periods</i>	<i>3.2.10D;3.4.10.B; 3.4.10.C; 3.6.10.B; 3.6.10.C; 3.7.10.A; 3.7.10.B; 3.7.10.D; 3.8.10.B</i>

<i>Instructional Binders</i> <i>Computers: SolidWorks / PowerPoint Software/ CorelDraw</i> <i>Model Smart 3D design software</i> <i>Handouts</i> <i>Class website</i>	<i>Mechanical Drafting Equipment / Textbooks</i> <i>Internet Resources: Moodle</i> <i>Technology Internet Resources</i>
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