

**POWER SYSTEMS: SMALL ENGINES & AUTO**

<b>CURRICULUM/CONTENT AREA</b>	<b>COURSE LENGTH</b>
<i>Applied &amp; Technical Education (ATE)</i>	<i>1 term, repeatable 1X</i>
<b>GRADE LEVEL</b>	<b>DATE LAST REVIEWED</b>
<i>9-12</i>	<i>2022</i>
<b>PREREQUISITE(s) if applicable</b>	<b>BOARD APPROVAL DATE</b>
<i>none</i>	<i>11/15/2022</i>

**PRIMARY RESOURCE if applicable**

**DESIRED RESULTS**

**COURSE DESCRIPTION AND PURPOSE**  
*Small engines is designed to introduce the next generation of small engine consumers and entry-level technicians to the industry. Individuals that take this course will have acquired the entry-level technical knowledge and skills necessary to service and maintain 2-stroke and 4-stroke small engines.*

<b>ENDURING UNDERSTANDINGS</b> <i>Students will understand that...</i>	<b>ESSENTIAL QUESTIONS</b> <i>Students will keep considering...</i>
Creativity, innovation, and critical thinking are essential for success in a technologically advanced world.	Why is creativity and innovation important? How is creativity and innovation used in [name of career pathway]? How do teams efficiently and effectively solve problems in an increasingly complex world? What strategies and processes can I use to become a more effective creator, thinker and problem solver?
The ability to communicate and collaborate with people with diverse backgrounds and perspectives is key to participation in a global economic society.	Why is communication and collaboration important? How do positive work behaviors and personal qualities impact communication and collaboration? What is effective teamwork? What strategies can I use/teams use to work better together? How can perspectives and experiences of a diverse group develop innovative solutions to a given problem?
Career and technical education provides pathways to high-demand, high-wage career opportunities, and personal fulfillment.	Why is career and life readiness important? What jobs and careers are available to meet individual and societal needs locally, regionally, and nationally? How might technical knowledge and skills influence one's employability and advancement opportunities within various work settings? What are employability skills? How do I prepare myself for a career that is in demand now and in 5, 10, or 20 years from now?

**PRIORITY CAREER & TECHNICAL STANDARDS**  
*Students will be skilled at...*

- Creativity, Critical Thinking, Communication and Collaboration**  
**4C2: Students will formulate and defend judgments and decisions by employing critical thinking skills.**  
 a: I develop effective resolutions for a given problem, decision or opportunity using available information.  
 b: I develop and implement a resolution for a new situation using personal knowledge and experience.
- Career Development**  
**CD4: Students will identify and apply employability skills.**  
 a: I identify and demonstrate positive work behaviors and personal qualities needed to be employable.  
 b: I demonstrate skills related to seeking and applying for employment to find and obtain a desired job.  
 c: I identify and exhibit traits for retaining employment.  
 d: I develop positive relationships with others.

**Information, Media, Technology**

**IMT1: Students will access, interpret and evaluate information from a variety of sources in order to inform and support premises, arguments, decisions, ideas and initiatives.**

- a: I choose appropriate sources of data and information for a given purpose.
- b: I determine the relevance, validity and timeliness of data and information.
- c: I select relevant information necessary for making decisions and solving problems
- d: I apply data and information to communicate ideas and create new opportunities.

**PRIORITY CONTENT STANDARDS**

*Students will know...*

**Standard: BB1:** Students will analyze the core concepts of technology.

**Standard: ENG1:** Students will analyze and demonstrate the attributes of design.

**Standard: ENG3:** Students will demonstrate and analyze the role of troubleshooting, research and development, invention and innovation and experimentation in problem solving.

**Standard: ICT1:** Students will analyze, select and use information and communication technologies.

**Standard: MNF1:** Students will be able to select and use manufacturing technologies.

Potential INDUSTRY-RECOGNIZED CREDENTIALS (IRCs) Opportunities associated with the course	Potential WORK BASED LEARNING (WBL) opportunities associated with the course
Potential DUAL CREDIT Opportunities associated with the course	





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