

Industrial Technology

Students will examine how engineering and technology helps improve, manage and control natural and engineered environments. **IND1**

- 1 Illustrate the purpose and impact of engineering and technology on society and the environment.** **IND1.1**
- 2 Apply the universal systems model when studying areas of applied sciences, technology engineering and manufacturing.** **IND1.2**

Students will investigate the evolution of engineering, technology and trade and industry on products, structures and systems. **IND2**

- 1 Analyze technological advancements throughout time periods in history.** **IND2.1**
- 2 Investigate inventions and innovations of products, processes, materials and tools.** **IND2.2**
- 3 Evaluate how technology inventions and innovations have impacted (positive/negative) the society and the environment.** **IND2.3**

Students apply safety practices in the lab and on worksites. **IND3**

- 1 Demonstrate safe practices and procedures with tools and equipment.** **IND3.1**
- 2 Demonstrate appropriate use of personal protective equipment.** **IND3.2**
- 3 Demonstrate safety concerns according to local policies and procedures.** **IND3.3**
- 4 Analyze hazardous materials procedures and OSHA.** **IND3.4**

Students apply and adapt appropriate workplace behaviors and characteristics to prepare for careers. **IND4**

- 1 Analyze education and skill requirements for engineering and technology and related professions.** **IND4.1**
- 2 Report the outlook, demand, and projected wages for engineering, technology and trade and industry careers.** **IND4.2**
- 3 Research, analyze and use data for work assignments.** **IND4.3**
- 4 Exhibit a responsible work ethic.** **IND4.4**
- 5 Demonstrate accepted standards for ethical behavior.** **IND4.5**
- 6 Establish a personal career goal and develop objectives for achieving the goal.** **IND4.6**

7 Create a continuing education plan that identifies further education and training options. IND4.7

8 Prepare for exams leading to certifications recognized by business and industry. IND4.8

9 Evaluate resources that keep workers current in the career field. IND4.9