Iowa CTE

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

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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