

Automation and Robotics (PLTW)

AR8476 9 weeks

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Course Description

Suggested Grade Level: 6 or 7 or 8

In this unit, students learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. Using the VEX Robotics platform, students apply what they know to design and program traffic lights, robotic arms, and more. Only Project Lead the Way (PLTW) member schools with approved PLTW agreements are eligible to offer this course.

Curriculum Framework

Project Lead The Way (PLTW) curriculum guides and course competencies are only available to PLTW affiliated schools through agreement with PLTW. To obtain additional information contact: Project Lead The Way 3939 Priority Way South Drive, Suite 400 Indianapolis, IN 46240 Toll Free: 877.335.PLTW (7589) Local: 317.669.0200 <https://www.pltw.org>

Appendix: Career Cluster Information

Career Cluster: Science, Technology, Engineering and Mathematics	
Pathway	Occupations
Engineering and Technology	Assembler Computer Programmer Electrical Engineer Electrical Engineering Technician Electro-Mechanical Technician Engineer Engineering Technician Mechanical Drafter Mechanical Engineer Mechanical Engineering Technician
Science and Mathematics	Secondary School Teacher