

Vocational Education Newsletter

Explore pathways that connect classroom learning with technical skills, career credentials, college options, and real workplace experiences.

Welcome to the Vocational Programs at ATA. During the year, we will give you updates, achievements and any other news that might be of interest to everyone. Please contact me whenever you have any questions about our programs or suggestions. We also welcome participants on our Advisory Boards that are conducted 2 X a year virtually or in person.

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Teachers:

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Featured Career Pathways

Mechatronics

Where mechanics, electronics, robotics, and computing work together.

What students explore

- Build and troubleshoot automated systems
- Use sensors, motors, controls, and programmable logic
- Apply workplace safety and precision measurement

Credential opportunities OSHA 10 • MSSC CPT • FANUC or Siemens training

Points of interest Robotics challenges, automated production, maintenance careers, apprenticeships, and advanced manufacturing.

Engineering

Design, test, improve, and communicate solutions to real problems.

What students explore

- Use the engineering design process
- Create CAD models, prototypes, and technical drawings
- Analyze data and work in collaborative design teams

Credential opportunities Autodesk Certified User • SOLIDWORKS CSWA • OSHA 10

Points of interest Design competitions, 3D printing, engineering notebooks, college credit, and industry mentor projects.

Aviation

Discover flight, aircraft systems, safety, and aviation careers.

What students explore

- Study flight principles, weather, navigation, and human factors
- Use simulation to practice planning and decision making
- Explore aircraft maintenance and airport operations

Credential opportunities FAA Part 107 preparation • AOPA curriculum badges • OSHA 10

Points of interest Flight simulators, drones, airport visits, aviation professionals, and pathways to pilot or maintenance training.

Business

Develop the communication, technology, and financial skills every organization needs.

What students explore

- Practice professional communication and customer service
- Use productivity software and business data
- Explore accounting, marketing, management, and finance

Credential opportunities Microsoft Office Specialist • Certiport CSB • ACT WorkKeys

Points of interest School-based enterprises, job shadowing, student organizations, portfolio building, and dual enrollment.

CAREER PATHWAYS CONTINUED

Learning by doing and preparing for what comes next

Entrepreneurship

Turn an idea into a plan, a pitch, and a potential venture.

What students explore

- Test ideas against customer needs
- Develop budgets, pricing, branding, and marketing plans
- Practice pitching, teamwork, and ethical decisions

Credential opportunities Certiport ESB • Certiport CSB • ACT WorkKeys

Points of interest Pitch competitions, mentors, pop-up businesses, business plans, and self-employment pathways.

Health Services

Build foundational knowledge and patient-centered skills for health careers.

What students explore

- Learn medical terminology, anatomy, infection control, and safety
- Practice vital signs, communication, and patient care
- Explore clinical, administrative, and allied health careers

Credential opportunities CPR AED and First Aid • Stop the Bleed • CNA or NHA pathway credentials

Points of interest Skills labs, simulations, guest speakers, clinical observations, and college health-program connections.

Carpentry and Millwright

Build skills for construction and industrial maintenance careers.

What students explore

- Blueprint reading, measurement, layout, and fabrication
- Hand and power tools, rigging, alignment, and installation
- Teamwork, problem solving, and jobsite safety

Credential opportunities OSHA 10 • NCCER Core or trade modules • ACT WorkKeys

Points of interest Shop projects, construction builds, precision machinery, welding exposure, apprenticeships, union careers, employer visits, and skilled-trades competitions.

Career connections Carpenter, millwright, industrial maintenance technician, installer, construction supervisor, and apprenticeship pathways.

Why Students Choose Vocational Education

- Hands-on projects connected to real careers
- Industry-recognized credential opportunities
- Career exploration before graduation

- Work-based learning and employer connections
- College credit and advanced training pathways
- A portfolio of skills, projects, and accomplishments

READY TO LEARN MORE:

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