



TEACHING TECHNOLOGY FOR TOMORROW.

- Technology Fundamentals
- Advanced Systems
- Integrated Automation

 ***TII Technical
Education
Systems***
Teaching Technology for Tomorrow.

TII Technical Education Systems (TII) is an internationally known leader in providing integrated, hands-on learning systems. Since our founding in 1964, we have excelled at producing innovative laboratory equipment and curricula geared toward technical training, workplace skills, and industrial certifications for schools, industry and government agencies worldwide.

We're incorporating the newest technology with an extensive curriculum for academic success, preparing students for today's modern employers.

TII's broad product line offers instruction in each of the major areas of technology skills training used in industrial systems today:

Technology Fundamentals

Advanced Systems

Integrated Automation

Programs are user-friendly and customizable for a clear, concise, and effective learning experience. From the entry-level student to the experienced professional looking to further their skills, our programs are designed to meet a wide variety of career-oriented needs. Programs are designed to be self-paced or instructor facilitated, providing maximum flexibility to the instructor and effectiveness to the student.

Our curriculum and learning systems serve as the building blocks for a career-focused education experience.

- Hands-on programs simulate real-life work conditions
- Assist in the development of a skilled workforce
- Entry level courses to advanced professional training
- Self-contained training system
- Comprehensive curriculum
- State-of-the-art laboratory equipment
- Multiple curriculum options



Sensors



Motor Controls



TECHNOLOGY FUNDAMENTALS



TII's Technology Fundamentals series is designed to introduce students to the basic principles of power technology. Our hands-on training systems are ideal for students and employees learning applications and physical properties within their industry.



Mechanisms

Technology Fundamentals

- Electricity & Electronics
- Pneumatics
- Hydraulics
- Mechanisms
- Robotics
- Sensors
- Micro Controllers
- Principles of PLCs



Hydraulics



Pneumatics

Fundamental Learning with TII

- Emphasizes industry-focused, hands-on learning with STEM applications
- Delivers a program consistent with Tech Prep
- Professionally written programs increase instructor efficiency and student results
- Curriculum divided into Introductory, Applications, and Physical Properties
- Includes easy to use instructor guide with student manuals
- Available with comprehensive 25-hour curriculum
- Assessment testing included



ADVANCED SYSTEMS

TII's Advanced Systems series provide the components and hands-on training required to effectively troubleshoot and repair systems used by today's employers in modern industry.

Industrial Fluid Power Series:

- Pneumatics
- Hydraulics
- Electro-Pneumatics
- Electro-Hydraulics

Industrial Learning with TII

- Helps students learn troubleshooting
- Explorer series with fluid power systems and PLC focus
- Flexible curriculum design: Use as an introduction, review or in-depth study
- Can be integrated with other training programs for advanced topics
- Industrial components for practical industry experience
- Hands-on activities increase learning retention
- Large tabletop workstations
- Air compressor, hydraulic power supply, and mobile bench options
- Rugged and durably made in the USA for student use

Industrial Controls Series:

Advanced PLCs

- Allen-Bradley
- Siemens
- Custom

PLC Applications

- HMI
- Ancillary Devices
- Machine Processes
- Analog Processes
- PAS Simulation Modules

AC Drives

Motor Control Troubleshooting

Advanced Electronic Sensors



Electro-Pneumatics



Programmable Controllers

INTEGRATED AUTOMATION



TII's Integrated Automation series offers a complete, mobile Computer Integrated Manufacturing System (CIM, FMS, Mechatronics) for a wide range of automated training configurations. Trainees will gain authentic Industrial Automation knowledge and skills on real world hardware in your classroom.

Integrated Automation

- Mechatronics
- Multi-Station FMS
- Single Axis CIM Cell
- Dual Axis CIM Cell
- System Integration
- Supervisory Software
- Application Robotics
- Local Area Networking
- Programming, HMI and Controls



Mechatronics

Integrated Learning with TII

- A genuine integrated automation learning experience
- Use Windows-based software communications and interfacing
- Develop competence in programming and operating industrial PLCs
- Industrial controls emphasizing real world inputs / outputs
- Install, connect and operate valves, actuators, sensors, conveyors and other automation components
- Develop skills in troubleshooting and fault identification
- Focus on real world applications
- Standard training systems are easily integrated into TII's automated learning system



56 East End Drive · Gilberts, IL 60136

800.451.2169 Toll Free

847.428.3085 International

847.428.3286 Fax

sales@tii-tech.com

www.tii-tech.com

**CONTACT TII TECHNICAL EDUCATION SYSTEMS
OR YOUR LOCAL REPRESENTATIVE FOR MORE INFORMATION**

