

Putting Education...**FIRST**



Photo courtesy of Mid-State AMETA Center.

Product Catalog

FIRST 
TECHNOLOGIES INC.

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ABOUT US

Founded in October 1994 by Robert L. Werner, Jr., First Technologies, Inc. provides curriculum, computer hardware and software, lab equipment, and lab furniture to teachers, administrators, and school districts across the states of Wisconsin, Minnesota, North Dakota, and South Dakota. First Technologies, Inc. provides on-site training, workshops, and follow-up training for instructors at the elementary, secondary, and post-secondary levels, and at industrial training facilities throughout these states as well.

First Technologies, Inc. also takes pride in its support and sponsorship of Wisconsin technology organizations such as the Wisconsin Skills USA State Contest and Wisconsin Technology Education Association (WTEA). Since its establishment in 1994, First Technologies, Inc. has provided the above mentioned services in Wisconsin. In 1998, the company expanded into the states of Minnesota, North Dakota, and South Dakota. First Technologies, Inc. supports the Minnesota Technology and Engineering Educators Association (MTEEA), the South Dakota Association for Career and Technology Education (SDACTE), the North Dakota Department of Career & Technical Education and others, and plans to continue its tradition of excellence in sales, service, and support across the entire territory.

Robert Werner received the State of Wisconsin Business & Industry Partnership Award in both 1994 & 1996. First Technologies, Inc. has received awards recently from WACTE, ATEA, and SkillsUSA-VICA.

First Technologies, Inc. is proud to be recognized for our service and training accomplishments in the education field.

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Laser Engravers are the ideal tool for engraving and cutting a wide variety of materials. Use a laser engraver for many different educational applications with wood, acrylic, plastic, paper, fabric & more.

EPILOG MAKER SERIES

All the laser machines in the Maker Series is available in 24"x12", 24"x24", and 36"x24" sizes and includes many of the same features as the larger machines- IRIS camera, touch screen, safety features, and more. Available in 30, 40, or 50 watts.



EPILOG FUSION EDGE SERIES

The Fusion Edge laser series takes our highest-quality engraving technology and incorporates it into smaller-format systems which allow customers to get the latest technology in a transportable format. The Fusion Edge machines are available in 24"x12", 24"x24", and 36"x24" sizes. Available in 50, 60, 80, and 100 watts.



EPILOG LASER ENGRAVER FEATURES



IRIS Camera



Touchscreen



Safeguard Features

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EPILOG FUSION PRO SERIES

The Fusion Pro is available in 24"x24", 36"x24", and 48"x36" bed sizes and offers Epilog's highest engraving and cutting speeds. The Fusion is the new standard for motion control design. The Fusion Pro is also available as a dual source (fiber & CO2) and with camera options. They are available in 60, 80, 100, or 120 watts.

AVAILABLE OPTIONS / ACCESSORIES

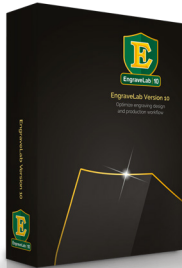


Rotary Attachment



Air Assist Pump

PhotoLaser Plus Software



BOFA Filter Systems are the industry's first choice for fume extractions. Their reverse flow air technology enhances filter performance and ensures longer filter life.





AUTOMOTIVE TRAINERS

ConsuLab's automotive educational products are built to help students meet the requirements for their specific program and prepare them for a successful future in the workplace. Their products are designed with their philosophy of taking OEM components found in industry today and adapting them for educational purposes by making them safer, more visible and then adding fault insertion where possible.



ConsuLab Ohm's Law & DC Circuits

The CL-1919-05 Ohm's Law & DC Circuits trainer is a self-contained educational learning system designed to assist instructors in teaching students basic electrical and electronic theory. It is designed to help teach Ohm's Law basics as well as demonstrating common electrical system components and circuit operation.



ConsuLab CAN Bus Multiplex Trainer

The ConsuLab CAN Bus Multiplex trainer communicates in J-1939 protocol. Digital and analog inputs and outputs can be activated. The trainer utilizes the "Moduponent™" design feature which allows unlimited expansion capabilities. This unit is equipped with an integrated electronic fault box containing 12 faults on each side.



ConsuLab Electromagnetism Trainer

The ConsuLab CL-1902 Electromagnetism trainer is designed for your students to physically demonstrate, test, measure, and experience electromagnetism using a "hands-on" approach to learning. Many aspects of a modern vehicle, whether a car, truck, combustion powered, hybrid or electrically driven, depend on some form of electromagnetism.

ConsuLab ALL EV iDEV Trainer

The EV-601 ALL EV iDEV training car by ConsuLab is not just a training aid, it's an actual Tesla Model 3 training car visually displayed for maximum learning! All major components are identified in their actual location, most have been exposed (cutaway) in a way that is not possible on an operating vehicle, this helps attain a better understanding of their internal components and workings.



ConsuLab ADAS Trainer (Advanced Driver Assist Systems)

This exciting new trainer is for teaching the concepts of autonomous vehicle systems & Advanced Driver Assist Systems (ADAS). The EV-360 was designed to demonstrate the fundamental concepts and technologies currently incorporated in today's advanced vehicles. This trainer allows a student to visualize sensor readings and results, literally locating where the components are on a vehicle and compares the strengths and weaknesses of the various sensors and technologies to one another.



ConsuLab EV High Voltage Safety Trainer

The EV-400 EV High-Voltage Safety Trainer represents a fully functional battery electric vehicle (BEV) in a compact classroom sized package. It provides an intuitive, hands-on experience for high-voltage testing, Personal Protective Equipment (PPE) use including gloves and insulated tools, high voltage isolation testing with a mega-ohmmeter, high voltage interlock circuits, first responders' loops, three phase motor control, high voltage power distribution, and much more.



HEAVY DUTY & DIESEL TRAINERS

ConsuLab's HD Diesel training products have the finest quality materials and are built with professional workmanship resulting in what are recognized as the best training tools available to schools and industry today. Our line of HD diesel system trainers provide a full range of products designed to assist instructors and students learning the complex and constantly evolving technology used in today's medium to heavy duty vehicles and off-road equipment.



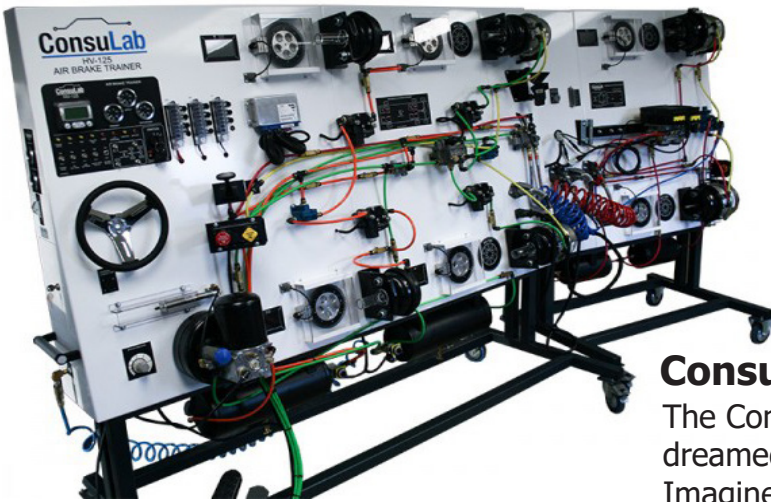
ConsuLab DEF (Diesel Exhaust Aftertreatment System)

The ConsuLab EC-490 is a cutaway diesel exhaust system trainer that allows students to view the components of a diesel exhaust aftertreatment system using LED's and electronic controls to help learners understand the function, and effect on, diesel engine exhaust gases following the combustion cycle. The trainer uses multiple colored LED's to represent the gases that flow in the exhaust system and, demonstrates the chemical reactions within each of the aftertreatment processes.



ConsuLab Diesel Repair Trainer

A complete running diesel engine for your classroom. A teardown station for teaching engine mechanical, with low-cost consumables, small package size and brand-new components. Teach the fundamentals of diesel engines, mechanical fuel injection systems, injectors, pumps, component identification all on this Kubota 2-cylinder engine from ConsuLab.



ConsuLab Air Brake Simulator

The ConsuLab HV-125-BWP is everything you've always dreamed about when teaching air brakes systems. Imagine being able to take the entire class out for a road test and watch live data on a scan tool and see what happens when you drive on dry pavement, during full throttle acceleration and a panic stop. Simulate a drive on an icy road and start to lose control, and you will get to demonstrate how the ABS and ESP functions. Students get to hear, feel and see how all the electronic control valves react during these ABS, ESP, and ATC events.



ConsuLab Diesel Engine Bench

The HV-950 Cummins diesel engine bench w/EGR, DPF, SCR, is mounted on a tubing steel stand. Completely operational and safe, this standard trainer is easy to work on and complies with manufacturer rules and specifications related to all OEM codes, colors and electronics. Especially built to meet all diesel engine performance and repair tasks these diesel engine benches meet North American emissions standards.



INTERNATIONAL TRAINING

SMC Corporation is the world leader in producing automation and pneumatic components. With over 60 years experience, and working in over 80 countries. SMC supplies automation components to over 35% of the world market.

FMS-200 (Flexible Manufacturing System)

The FMS-200 system enables integrating robotic technology, where it is possible to choose between incorporating a collaborative, or standard, industrial robot. In addition, FMS-200 includes the breakdown simulation system which generates up to 16 different breakdowns to be diagnosed by the user.



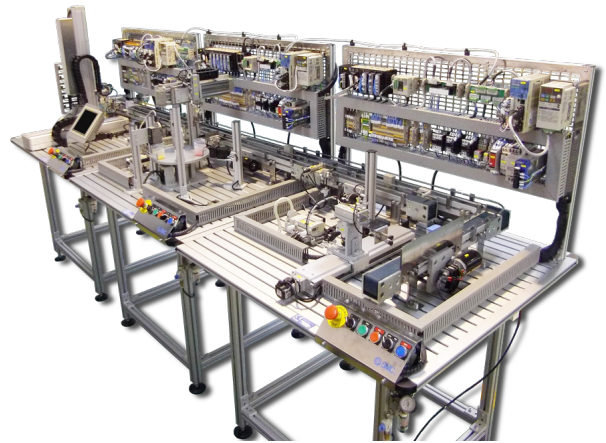
M&I-400 SERIES (Mechatronics & Industry 4.0)

SMC's M&I-400 is a learning system designed for training on industrial technologies in mechatronics and industry 4.0, while being incredibly attractive and visually appealing. The industrial system makes it easy for students to attain industry's most needed skills through exciting and practical activities, while also attracting students to learn these skills and technologies.

Ask our sales representative for information on the full line of SMC products available!

ITS-200 (Innovative Training System)

The ITS-200 system provides professional training in industrial automation, more specifically in the field of state-of-the-art servo drive and sensor systems. Each station includes its own PLC.



PNEUMATE-200 (Pneumatic Training)

This didactic equipment is comprised of a panel with pneumatic and/or electro-pneumatic components, depending on the option selected. The Pneumate-200 has interchangeable accessories that allows the user to start up examples of real applications.

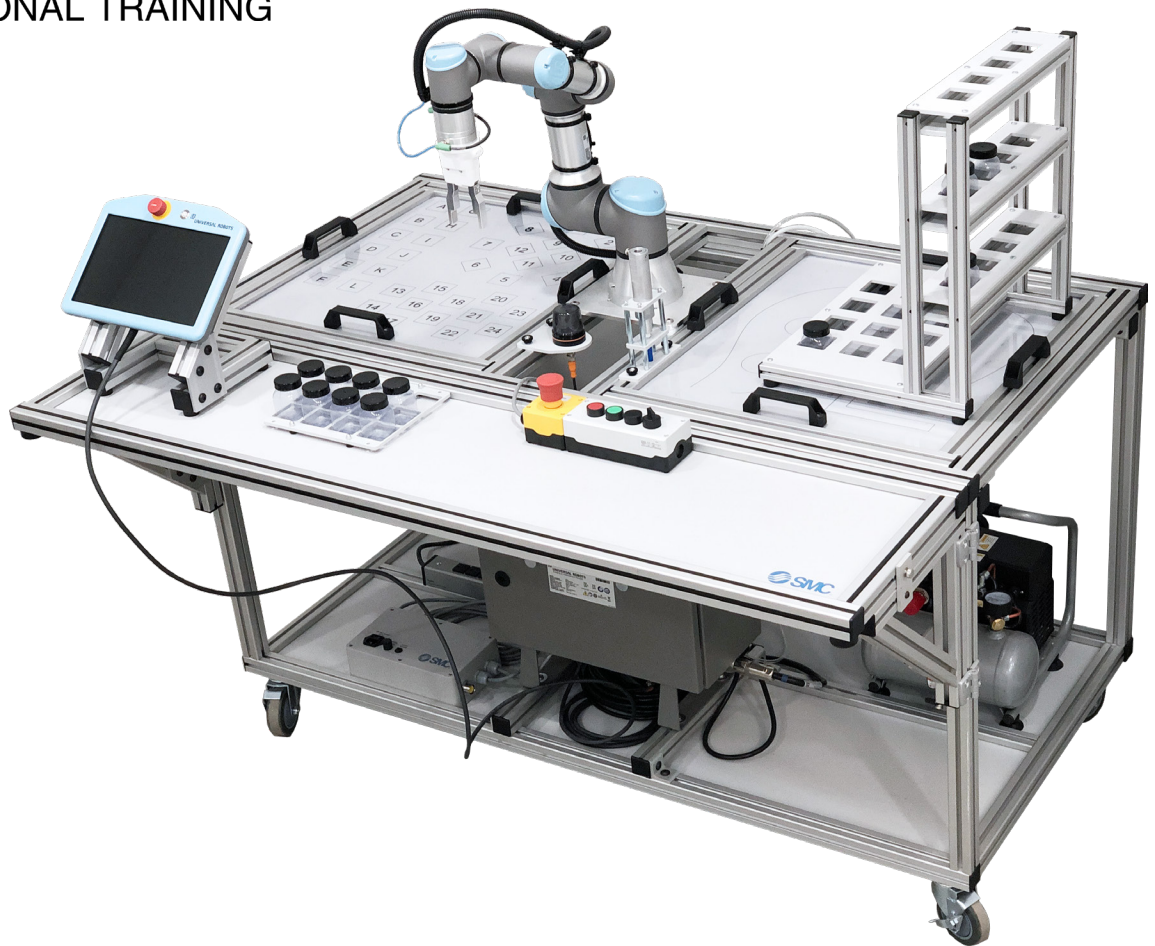
HYDROTRAINER-200 (Hydraulic Training)

Hydraulic drives continue to be used in numerous application in automated industry. With the Hydrotrainer-200, you will be able to meet all your training requirements in the technology related to these drives. The Hydrotrainer-200 is designed using top-quality industrial materials. It has everything required to start working from day one.





INTERNATIONAL TRAINING



RTS-200 (Robotic Training System)

The RTS-200 allows participants to advance from basic programming to integration of various technologies including electrical controls, pneumatics, controllers, vision, sensors and more. The Universal Robot handles the communication and integration of these components. Students will master the use of robotics and mechatronics for Industry 4.0.

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Mechatronics Training

Instruction | Equipment | Solutions



PERFECT FOR BEGINNERS

- Standard industry equipment combined with hands-on labs teach practical applications
- Step-by-step eLearning labs ensure student success
- Realistic industrial scenarios with robust Input/Output options
- Intuitive HMI for seamless interaction and control
- Variable Frequency Drive and motor setup for precise speed control
- Air cylinder control for a complete understanding of pneumatic systems
- Includes PLC trainer+ PLC & HMI software

TEACHER FRIENDLY

- **No Prerequisites**

Designed to accommodate all levels, easily integrates into your program.

- **All-in-One Package**

Lightweight and easy to move between classroom, lab, & recruiting events.

- **Comprehensive Curriculum**

Includes video lessons, assessments, & lab assignments eliminating your prep

- **Included Software**

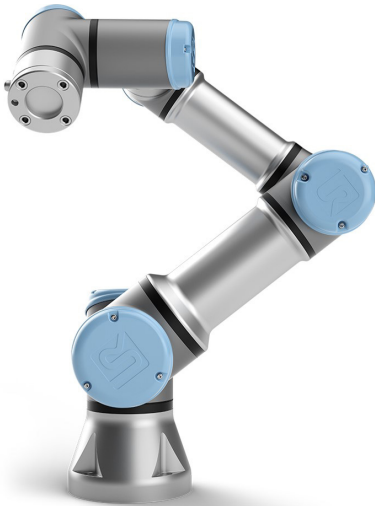
Free PLC and HMI software offers a cost-effective solution and unparalleled flexibility if software needs to be installed at home, work, or in the classroom.



**THE WORLD'S #1
COLLABORATIVE ROBOT!**

UNIVERSAL ROBOTS

Small, lightweight cobots are cost-effective to deploy and can fit in small labs and on classroom tables. A Universal Robots robot arm consistently follows exact processes and pre-defined workflows with high repeatability around the clock.



UR3e

The UR3e flexible collaborative robot arm has a small footprint and is ideal for intricate tasks. The UR3e is compact weighing only 24 lbs but has a payload of 6.6 lbs, 360 degree rotation on all wrist joints and infinite rotation on the end joint.



UR5e

The UR5e is a lightweight, adaptable collaborative industrial robot that tackles medium-duty applications with ultimate flexibility. The UR5e is designed for seamless integration into a wide range of applications. UR5e is also offered as an OEM robot system and with a 3-Position Teach pendant



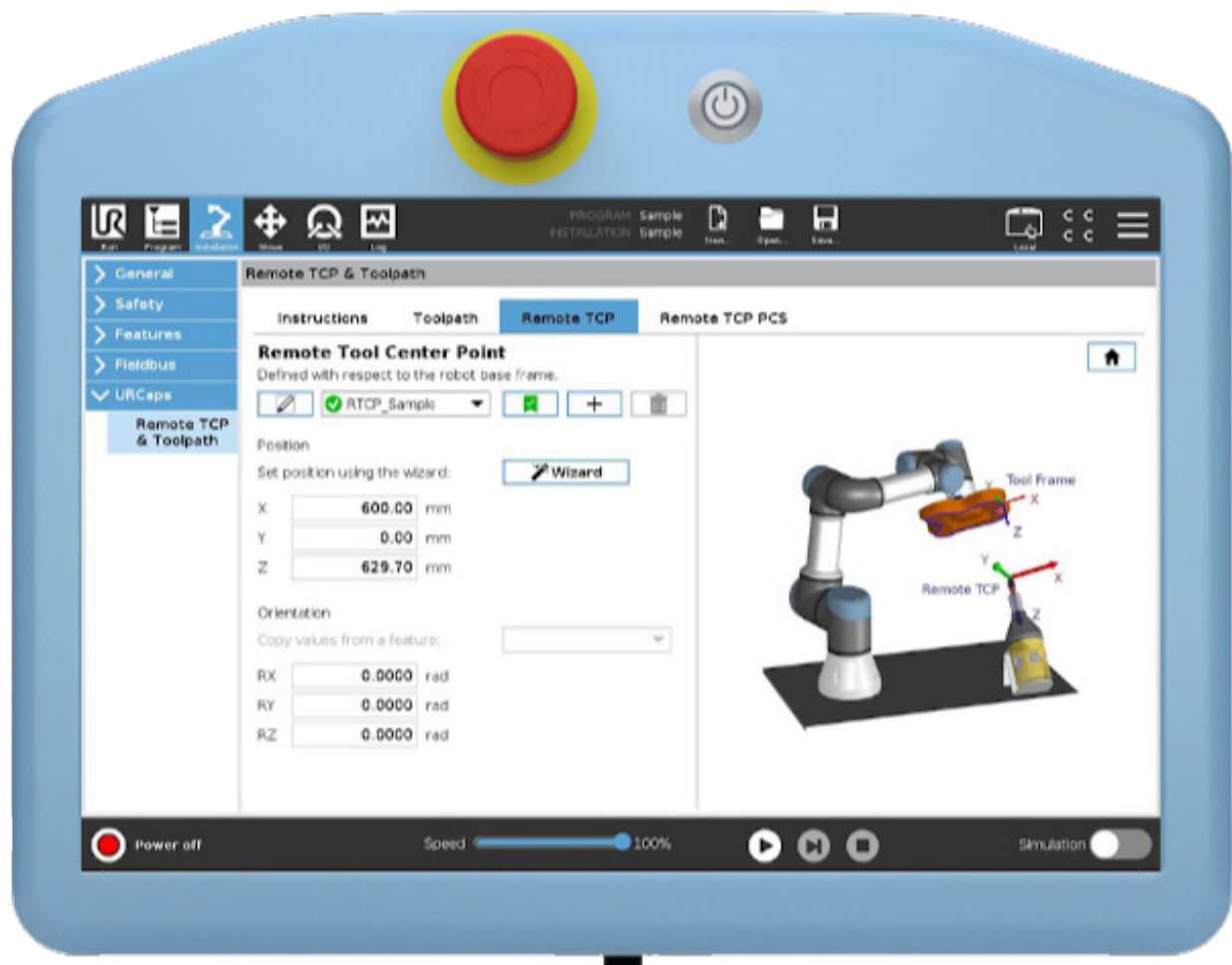
UR10e

The UR10e is our medium duty industrial collaborative robot that combines both long reach and high payload. This cobot will seamlessly integrate into a wide range of applications and delivers endless automation possibilities. The UR10e is weighs in at only 30 lbs but has a payload of 22 lbs, 360 degree rotation on all wrist joints and infinite rotation on the end joint.

Ask our sales representative for information on the full line of robots we have available!

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Universal Robots Teach Pendant

The Remote TCP & Toolpath URCap makes it easier to program Universal Robots for process applications, such as dispensing, deburring, polishing, etc. First, this URCap allows you to set Remote Tool Center Points (RTCP), where the tool center point is fixed in space, relative to the base of the robot.

Second, it is also able to automatically generate robot motion based on an imported G-code toolpath file. When the robot is required to follow a complex trajectory for a dispensing or deburring application, it is much easier to program the toolpath based on a part model in the CAD/CAM software that the user is already familiar with. The user no longer needs to spend a long time programming waypoints and circle moves from the teach pendant.



The JobMaster Electromechanical Maintenance Cell is the ultimate capstone project for an industrial maintenance mechatronics program.



Electromechanical Maintenance Cell

In a footprint of 5.6 square meters (60 square feet), the JobMaster 1600 Electromechanical Maintenance Cell simulates an automated manufacturing operation in an industrial plant. This platform delivers relevant skills in the installation, operation, troubleshooting and maintenance of industrial equipment. The basic cell includes electrical power distribution and controls, wire and cable tray, wireways, conduit and equipment housings.



Intelitek SmartCart 4.0

With the focus on advanced manufacturing technologies and how they are integrated to deliver automated systems, the SmartCart 4.0 is an ideal environment for learners to delve into Industry 4.0 skills like advanced communication, Internet of Things, data analytics, and automation. The solution is built around an industrial robot and integrates multiple smart sensors, a programmable logic controller (PLC), Human Machine Interface (HMI), machine vision, and other accessories to teach students the complexities of how these systems interact in real industrial processes.



Intelitek's latest line of Bench and Pro series CNC machines push the envelope for ease-of-use and affordability. Coupled with interactive online e-learning courses with fully-integrated web-based simulations of their machines, they offer an unmatched solution for CNC technology training.

INTELITEK BENCHMILL 6100

The BenchMill 6100 is a PC-based benchtop CNC machining center enabling robust CNC and advanced manufacturing instruction. Students learn the fundamentals of CNC milling by working with industrial-based equipment to accurately machine a series of complex parts.

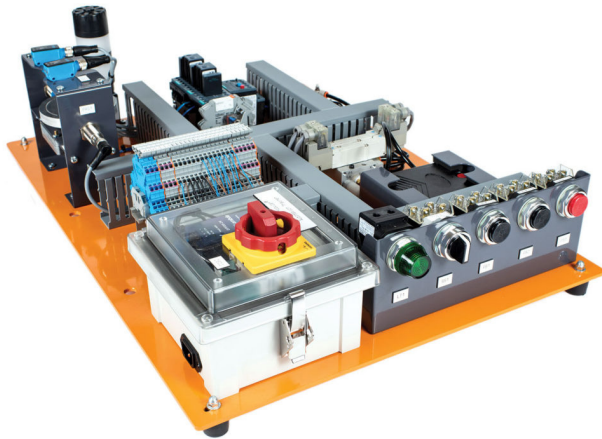


INTELITEK BENCHTURN 7000

The BenchTurn 7000 introduces students to the fundamentals of CNC turning. Students gain hands-on experience in proper set up, cutting tools selection, tool path simulation and turning center operation.

Ask our sales representative for information on the full line of Intelitek products available!

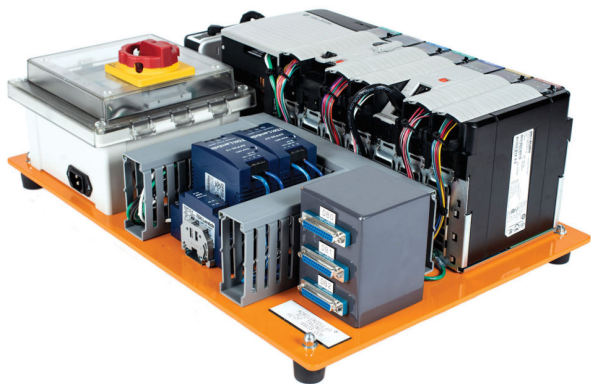
Mobile Modular Training Systems provide innovative training equipment and curriculum to build Advanced Manufacturing skills. Their patented modular units are designed to address a wide range of an organization's educational and training needs, using industry-standard components that replicate industrial applications creating relevant experiential learning.



Automation Training System

The Automation Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in basic motor control, switches, relay logic and pneumatics.

Learn the fundamental concepts to safely design machine systems and wiring as well as an introduction to automation control components.



PLC Training System

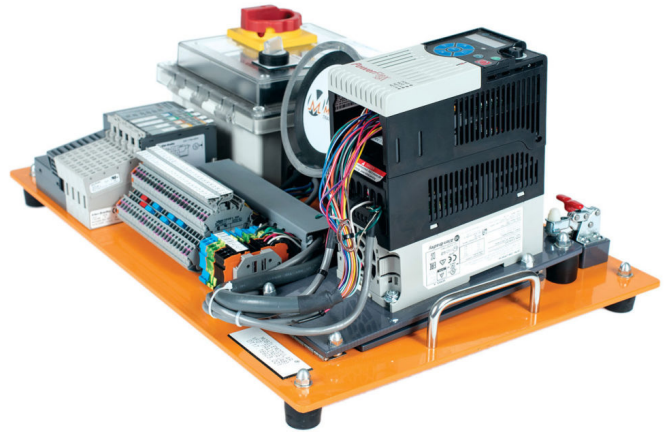
The Control Logix PLC Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience on training equipment utilizing industry-standard components designed to simulate industrial systems.

Learn the fundamental concepts of Industrial PLC (Programmable Logic Controllers) from identification of hardware components through programming from functional specifications. This trainer utilizes Rockwell Automation "Studio 5000" programming software.

Ask our sales representative for information on the full line of Mobile Modular products available!

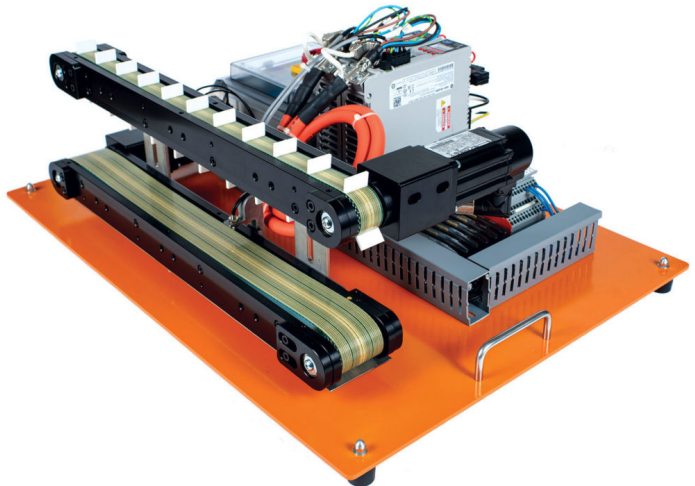
VFD Training System

The VFD Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in VFD Allen Bradley controls and drives. Learners trained on this training system will learn variable frequency drive operation, how to diagnose and troubleshoot problems with VFD circuit failures and industrial drives technology.



Servo Motion Training System

The Servo Motion Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience in programming of automation machinery. Learners trained on this training system will learn the applications and utilization of digital input and output devices through connection to and programming PLC's to complete basic motion tasks.



Pneumatics Training System

The Pneumatics Training System and curriculum provides a practical approach for new training or expanding existing skills with learners gaining valuable hands-on experience using safe pneumatics principles and methods. Learners trained on this training system will learn the fundamental concepts of hydraulic and pneumatic systems for maintenance individuals in the manufacturing environment.





TORMACH®

Yes, Tormachs cut titanium. People seem genuinely surprised to see it. And they cut stainless and hardened steel, too. Don't forget tool steel, aluminum, plastics, wood. Whatever. Tormach was founded on the idea that affordable, capable CNC tools should exist that are easy to learn and use.



CNC Mills

The PCNC Mills are designed from the ground up for maximum versatility. They are designed for the materials you cut the most: aluminum, light metals and plastic with enough horsepower to tackle the harder stuff when needed.

CNC Lathes

The Tormach Lathes are compact CNC Lathes designed for prototyping and specialty manufacturing of turned parts. They are loaded with features and options, including standard conversational control, rigid tapping and configurable tooling and work holding.

Tormach has a wide variety of mills and lathes available!

TORMACH 1300PL

A robust, fully welded steel-tube frame and aluminum gantry. The 1300PL plasma table is built for speed, accuracy, and longevity. It's lift-gate deliverable, you won't need expensive riggers to set it up, and it runs on single-phase 220V power.

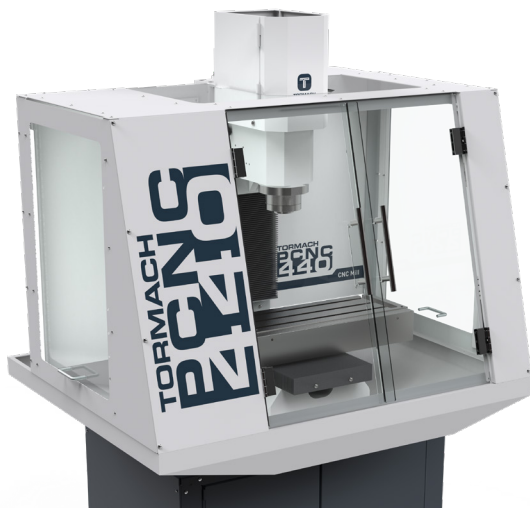


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TORMACH xsTECH & xsTech PRO

Tormach's xsTECH is a fully enclosed router that is perfect for use in middle schools, high schools and Fab Labs. The desktop size allows it to be moved and shared among multiple classes. The xsTECH Router uses the same PathPilot programming as the larger Tormach CNC tools.



TORMACH PCNC 440

The PCNC 440 is a small machine that produces big results. This benchtop mill fits all-around capability in a compact and affordable package, perfect for anybody who wants to perform machining operations in a small space.

TORMACH 24R

This computer-controlled Router is designed to accurately cut a variety of materials, including aluminum, plastics, wood, and more. With an advanced control, rigid cast-iron bed, welded-steel stand, water-cooled chiller, integrated vacuum table, and more than a 2' x 4' work envelope, this router is the perfect choice for all your 2D and 3D cutting needs.



**FREE OFF-LINE
STUDENT SOFTWARE!**



Operator Console with PathPilot Control

The all in one machine console allows you to operate your Tormach with built in hardware knobs for feed and speed overrides and a durable hand-held jog pendant for precise manual positioning of the machine. The operator console can be used on all Tormach machines, providing a consistent interface as students move from machine to machine.

What is PathPilot?

All Tormach CNC equipment ships with PathPilot, the brain that runs our machines. It's easier to learn and use. You'll start cutting parts faster and with fewer headaches. The version of PathPilot that comes with the 1300PL has a couple of added bonuses-DXF import, Kerf compensation, online training.

Most models of Tormach machines can be fitted with the Operator Console option.



Lone Star Cutting Solutions offers Routers and Plasma Cutters, from 2x2, all the way up to 6x12. All machines come on a 100% welded steel frame, come fully assembled, and with a 2 year warranty.



LONE STAR EZROUTER

The EZRouter allows visualization of assembly of 2D objects in 3D space. It gives students the ability to create impressive large scale projects at a very low cost and produces results quickly.



LONE STAR SPITFIRE & TROOPER PLASMA

The Spitfire and Trooper 4x4, 4x8 and 5x10 are industrial grade, mid-range stepper-based plasma cutting systems. Able to cut mild steel, carbon steel, stainless steel, aluminum, copper, brass and other metals! Easy to use and great for FabLab shops!

Ask our sales representative for information on the full line of Lone Star products available!

At Techno, they believe that high quality CNC machinery ensures reliable cutting and machine longevity. It has become their mission to remain price conscious while delivering CNC solutions across the globe. Techno produces a vast number of machine models to meet any and all production needs and budgets.



TECHNO BT1212

The BT1212 Benchtop CNC Router is a small compact tabletop router that includes a 1 HP router, full safety enclosure, aluminum t-slot table and is driven by brushless stepper motors and drives. The controller is Techno's ever-so-popular and easy-to-use hand-held controller, ideal for educational applications.

TECHNO LC SERIES CNC ROUTER

The LC Series features all steel construction and new ball screw technology. Available in two sizes, 4'x8' and 5'x10' with a 12" gantry clearance, this machine comes standard with a 12HP automatic tool changer, 8-position tool rack, and pneumatically operated vacuum hood.



TECHNO PHOENIX CNC PLASMA

The Phoenix series CNC Plasma machine is all steel constructed, providing a rigid foundation to support heavy plate loads, and delivers ultra-smooth plasma cutting results. It can be equipped with a variety of plasma torch power supplies for various material thicknesses. The gantry height is 7-1/2".



JPW offers a wide variety of metal and woodworking machinery. Their products are reliable and produce quality results. JPW offers CNC machines, mills, table saws, sanders, and more!



WOODWORKING • METALFORMING • CNC • AIR & HAND TOOLS • AND MORE!



JET BAND SAW



POWERMATIC DISC SANDER



BAILEIGH BAND SAW



JET DRILL PRESS



BAILEIGH WATERJET



BAILEIGH CNC ROUTER

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Afinia products are reliable and intuitive. They are perfect for classrooms, labs, Fab Labs, and Makerspaces with their auto-leveling platform, material specific print heads and dual air filtration. Afinia printers offer unbeatable lifetime phone support and a one-year warranty.

AFINIA QD330

The Afinia QD330 is the newest printer from Afinia. It is reliable and creates quality 3D prints.

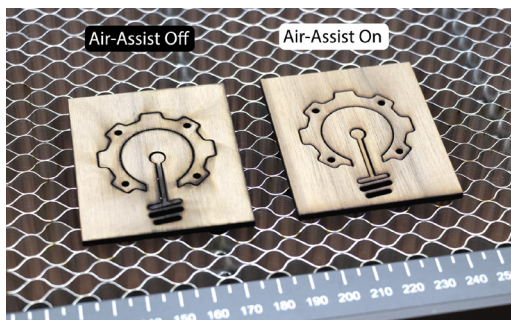


- Fully-enclosed system with HEPA filtration
- Build volume: 8.6 x 8.6 x 8.6
- Dual-sided flexible platform
- Fully-automated platform leveling and height sensing
- Whisper quiet operation
- WiFi Connectivity
- Touchscreen display
- Remote camera monitoring
- Smart support material technology
- Easy filament spool loading

AFINIA EMBLASER PRO

The large capacity bed allows materials as large as approximately 20 x 12.6 x 2.3 inches in size to be cut or engraved. The installed Air-Assist prevents scorching during cutting and engraving. The Emblaser Pro has an incredibly accurate onboard camera allowing for a easy alignment of materials. The Emblaser Pro comes with USB and Wifi connectivity and operates with LightBurn software for PC or Mac. Once the job is started, the computer can be disconnected from the Emblaser Pro.

**AVAILABLE IN
40W OR 60W!**



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Afinia Dobot Magician

A truly cutting-edge robotic arm—it can 3D print, manipulate objects, write and draw. It has a graphical programming environment, multiple tool heads, and the capability to work with the Arduino platform. It's a robot for your creativity and desire to develop. With Dobot's exclusive tutorials and lessons, the Magician is the ideal way to learn about robotic arms, hardware development, coding and automation.



Afinia Dobot MG400

The Dobot MG400 is a testament to innovation and compact design in the world of robotics. With a footprint that's smaller than a piece of A4 paper, this desktop robotic arm is a space-saver without compromising on functionality. It is an embodiment of the phrase "small but mighty," perfect for laboratories, small workshops, and educational environments where space is at a premium but the automation needs are high.

Afinia Dobot Magician E6

The Dobot Magician E6 is crafted to bridge the gap between learning and real-world applications. Designed specifically for education and scientific research, this desktop cobot provides an interactive platform for students and researchers alike. Its compact size and advanced capabilities make it a prime resource for teaching complex concepts in AI, robotics, and smart manufacturing.



AFINIA EINSTAR VEGA



The Einstar VEGA is a wireless compact handheld 3D scanner for scanning both in high detail for smaller objects and long range for larger objects, making the Einstar VEGA a 2-in-1 3D scanner. The built-in computing and wireless connectivity make the Einstar VEGA a truly portable device for the classroom environment. The VEGA scanner can even be used in outdoor environments due to its infrared light scanning technology. Capture high-quality, life-like color images with the scanner's 48MP camera.

AFINIA FREESCAN COMBO

FreeScan Combo and Combo+ adopt metrology-grade accuracy, fine scanning and high precision from the FreeScan series, while providing an even lighter and more compact design. The Combo features 26 + 7 + 1 blue laser lines and an infrared scanning mode, while the Combo+ increases the 26 lines to an incredible 50 lines.



AFINIA EINSCAN LIBRE

The EinScan Libre is a fully wireless, stand-alone 3D scanner that is powered by its built-in screen and NVIDIA processor. It offers a perfect balance of freedom and efficiency, ensuring reliable results with versatile, user-friendly operation.

Afinia offers a wide range of scanners - ask us for details.



Interior Concepts manufactures school furniture and office furniture and uses ImagineIt! Design Sessions to design the furniture to fit your needs. Classroom furniture is an investment in creating a productive environment. Interior Concepts will work closely with you to understand your specific issues and design your furniture layout to fit your needs.

AngleLock™

Aluminum Systems

AngleLock worked for over five years developing and perfecting a completely new structural aluminum framing system aimed at maximizing strength. By creating mechanically locked, precision-aligned joints and components, these tables perform even when subjected to heavy industrial vibrations. These tables are perfect for any classroom, shop, or FabLab.



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INTERNATIONAL TRAINING

eLEARNING-200 - The perfect theory companion
Online courses to acquire theoretical knowledge in technologies in automation.

autoSIM-200 - Automation Simulator
autoSIM-200 is software for training in automation technologies that allows the user to try his/ her programs on a virtual system before applying the circuit to build.

SMCTwin-400 - Tool for the development and use of digital twins
SMCTwin-400 is an online emulation platform where, through annual subscription licences, you will be able to develop and control your digital twins and work with some of those created for SMC International Training's didactic equipment.



SolidWorks Education Edition is an inclusive resource for teaching 3D mechanical CAD, design validation, and data management. SolidWorks gives students experience needed for today's competitive job market and offers a wide range of resources including tutorials, specialized curriculum and certification courses.



VCarve Pro provides a powerful but intuitive software solution for creating and cutting parts on a CNC Router. VCarve Pro gives you the power to produce complex 2D patterns with profile, pocket, drill and inlay toolpaths plus the ability to create with textures and Vectric 3D clipart or single model files.



With CorelDraw, you can tap into an intuitive, powerful design environment and bring ideas to life. CorelDraw is built with cutting edge design technology, efficient new tools and faster processing to streamline workflow.



The industrial certification provided by the global leader in industrial automation. Different paths & levels.

INTERNATIONAL TRAINING

AUTOMATION CERTIFIED Specialist OSAC	FLUID POWER CERTIFIED Specialist OSAC	MECHANICAL CERTIFIED Specialist OSAC	ROBOTIC CERTIFIED Specialist OSAC	PROCESS CERTIFIED Specialist OSAC	INDUSTRY 4.0 CERTIFIED Specialist OSAC
Certified Automation Technician Level IV <ul style="list-style-type: none"> Industrial Networks Distributed I/O System SCADA Systems Artificial Vision Systems 	Certified Fluid Power Technician Level IV <ul style="list-style-type: none"> Proportional Hydraulics Pneumatic Troubleshooting Hydraulic Troubleshooting Energy Efficiency 	Certified Mechanical Technician Level IV <ul style="list-style-type: none"> Laser Shaft Alignment Laser Belt/Chain Alignment Vibration Metering/Analysis Thermal Imaging 	Certified Robotic Technician Level IV <ul style="list-style-type: none"> Robot External Axes Autonomous Robots 	Certified Process Technician Level IV <ul style="list-style-type: none"> Instrument Calibration Process Troubleshooting HART Protocol Foundation Fieldbus Process Technicians 	Certified Industry 4.0 Technician Level IV <ul style="list-style-type: none"> Advanced I4.0 Applications Troubleshooting I4.0
Certified Automation Technician Level III <ul style="list-style-type: none"> Programmable Controllers Human Machine Interface Applied Automation Applied Troubleshooting 	Certified Fluid Power Technician Level III <ul style="list-style-type: none"> Electrical Fundamentals Electro-Pneumatics Electro-Hydraulics 	Certified Mechanical Technician Level III <ul style="list-style-type: none"> Industrial Bearings Lubrication Linear Drives Clutches and Brakes Pump Systems 	Certified Robotic Technician Level III <ul style="list-style-type: none"> Robot Communications Robot PLC Integration Robot Artificial Vision 	Certified Process Technician Level III <ul style="list-style-type: none"> Loop Checking Loop Tuning Feedforward Control Cascade Control Ratio Control Loop Tuning 	Certified Industry 4.0 Technician Level III <ul style="list-style-type: none"> MES Systems Augmented Reality I4.0 Applications
Certified Automation Technician Level II <ul style="list-style-type: none"> Electrical Wiring Electric Motors Industrial Controls Variable Speed Drives 	Certified Fluid Power Technician Level II <ul style="list-style-type: none"> Pneumatic Systems Vacuum Systems Hydraulic Systems 	Certified Mechanical Technician Level II <ul style="list-style-type: none"> Precision Measurement Fabrication Fundamentals Mechanical Drives Shaft Alignment 	Certified Robotic Technician Level II <ul style="list-style-type: none"> Robot Programming II Robot Applications Robot Integration 	Certified Process Technician Level II <ul style="list-style-type: none"> Final Control Elements Manual Control Automatic Control PID Fundamentals PID Control Loops 	Certified Industry 4.0 Technician Level II <ul style="list-style-type: none"> Identification Systems Electrical Actuators/Motion Communication Protocols
Certified Automation Technician Level I <ul style="list-style-type: none"> Introduction to Automation Pneumatic Fundamentals Electrical Fundamentals Electrical Safety Electrical Sensors 	Certified Fluid Power Technician Level I <ul style="list-style-type: none"> Fluid Power Fundamentals Pneumatic Fundamentals Hydraulic Fundamentals Fluid Power Safety 	Certified Mechanical Technician Level I <ul style="list-style-type: none"> Mechanical Fundamentals Mechanical Safety Mechanical Fasteners Mechanical Tools 	Certified Robotic Technician Level I <ul style="list-style-type: none"> Robot Fundamentals Robot Types Robot Safety Robot Setup Robot Programming I 	Certified Process Technician Level I <ul style="list-style-type: none"> Process Fundamentals Process Safety Process Documentation Process Measurement Process Signals 	Certified Industry 4.0 Technician Level I <ul style="list-style-type: none"> Industry 4.0 Fundamentals IO Link Communications Smart Sensor Technology Smart Valve Technology Smart Actuator Technology

As a global leader in industrial automation and control products, SMC has developed the Industrial Path to Certification program. This certification program is a comprehensive credentialing mechanism for delivering and verifying the competency level of individuals, covering the most common technologies used throughout modern industry.

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UNIVERSAL ROBOTS

UNIVERSAL ROBOTS ACADEMY

Armed with IACET-accredited training from the UR Academy, you're set for success. We offer world-class learning and resources to help you get started - and nurture the engineers of tomorrow. Get the right tools and the right know-how with industry-recognized certification.

Upon completion of the Educational Robotics Training Core course work, a student receives 32 course credit hours and a Universal Robots industry recognized certification.



YASKAWA

Students who complete the MotoMan MHJF Robotic Fundamentals and Advanced Robotics curriculum are eligible to become certified as a MotoMan Operator and/or Programmer. At the completion of each course, the course concludes with a practice exam which the student must pass before taking the MHJF Certification exam.

Candidates that successfully complete the practical exam are then eligible to take the final certification exam which is a test composed of 40 multiple choice questions about the MotoMan system and robotic theory.





Students may take these exams for free, if their school is a SOLIDWORKS Academic Certification Provider and on subscription.

Available Certifications:

CSWA*

- CSWA - Academic Exam
- CSWA - Simulation
- CSWA - Sustainability

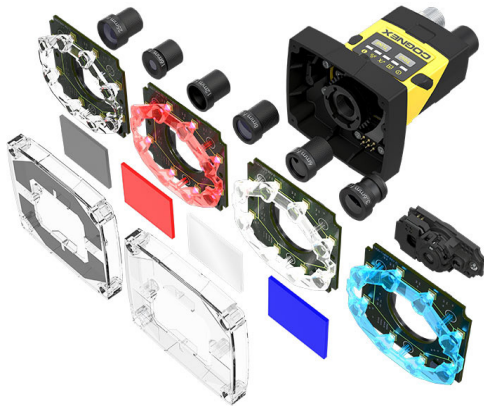
CSWP*

- CSWP - Academic Exam
- CSWP - MBD
- CSWP - Simulation

CSWPA*

- CSWPA - Drawing Tools
- CSWPA - Mold Making
- CSWPA - Sheet Metal
- CSWPA - Surfacing
- CSWPA - Weldments

*** Solidworks Certifications are eligible for the WI CTE Incentive Grants**



Intelitek Machine Vision Technology training courses introduce students to smart automation technology by connecting cameras and computers to provide the image interpretation and visual feedback needed for part inspection, robotic guidance and industrial automation. Deployed by the world’s top logistics companies, manufacturers and machine builders, machine vision solutions are proven to cut costs, improve efficiencies, and maximize throughput.



National Institute for Metalworking Skills (NIMS)*

NIMS is a nonprofit formed in 1995 to develop and maintain a globally competitive workforce. Their mission is to help organizations improve overall performance by teaching them how to train and validate training with practical experiences that reflect what individuals and teams will face on the job.

NIMS has a stakeholder base of over 6,000 companies in partnership with major industry trade association.

NIMS Certification for Industrial Technology Maintenance includes:

- Electrical Systems Specialist
- Electronic Control Systems Specialist
- Mechanical System Specialist
- Pneumatics System Specialist
- Hydraulics System Specialist
- Maintenance Operations Systems Specialist

Industry 4.0

NIMS Smart Production Specialist

*** All NIMS Certifications are eligible for the WI CTE Incentive Grants**

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