

TECHNICAL TRAINING

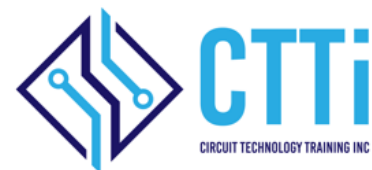
Program Catalog

2025 – 2026

Contents

Partners	2
Roadmap to Technical Careers.....	3
Youth Programs » High School.....	4
Youth Programs » Home School	5
Adult Programs » Entry Level	6
Adult Programs » Beyond Entry Level	7
Adult Programs » Apprenticeships	8
Adult Programs » Apprenticeships	9
Specialty Training Programs.....	10

Partners



Roadmap to Technical Careers



Youth Programs » High School

IGNITE: Mastering Manufacturing

Step 1 on The Road Map

An innovative, 4-year high school curriculum that equips students with the mastery of manufacturing technologies, processes, and systems to prepare them for careers in the 21st-century production environment and/or for the continuation of their education. Students will go through stimulating interactive eLearning lessons, computer simulations, design projects, and hands-on workstations using Industry 4.0 technologies.

Core Classes

- ✓ Year 1: Introduction to Advanced Manufacturing
- ✓ Year 2: Introduction to Systems
- ✓ Year 3: Mechatronics Systems
- ✓ Year 4: Digital Manufacturing Systems

Core Credentials Earned

- ✓ Year 1: FLRTW: Digital Skills/ NIMS / NC3 Hand Tools (3 Total)
- ✓ Year 2: FLRTW: Soft Skills / NIMS CNC Operator (3 Total)
- ✓ Year 3: Communication Skills for Business (1 Total)
- ✓ Year 4: SACA Basic Operations (1 Total)

(Student may graduate with 8 credentials)

Youth Programs » Home School

Class Source Home School Program

Step 1 on The Road Map

[Class Source](#), a 501(c)(3) non profit organization, has partnered with AmSkills to bring vocational training to our homeschool community. In this Registered Pre-Apprenticeship program, students will be offered the following courses and they can test to achieve the micro-credentials.

Students are given access to the Amatrol LMS to access the curriculum from SACA. Each course has a final exam. A passing grade is required to earn the micro-credential.

Core Micro-Credentials

- ✓ [SACA C-101 Associate – Basic Operations \(Year 1\)](#)
- ✓ [SACA C-102 Associate – Advanced Operations \(Year 1 and/or Year 2\)](#)
- ✓ [SACA C-103 Robot System Operations \(Year 2\)](#)

Adult Programs » Entry Level

Career Discovery Bootcamp

Step 2 on The Road Map

This 2-week (80 hour) Career Discovery Bootcamp is designed to introduce the foundational skills into Advanced Manufacturing, utilities/public works and provide an opportunity for a potential entry level job in the industry. Hands-on projects include soldering, electrical, precision measurement, robotics , employability skills, and manufacturing tour.

Core Certifications

- ✓ NC3 Snap On –Hand Tools ID & Safety
- ✓ Florida Ready to Work: Soft Skills

Adult Pre-Apprenticeship

Step 3 on The Road Map

The Pre-Apprenticeship is a Florida Department of Education (FDOE) Registered program that allows the participant to explore the manufacturing industry and career paths before committing to a full Apprenticeship program. You do not need previous work experience or education in manufacturing.

This course covers a wide range of advanced manufacturing topics including safety, basic hand tools, measurement, print reading, and the fundamentals of mechanical, fluid power, electrical, and automation.

Students are given access to the Amatrol LMS to access the curriculum from SACA. Each course has a final exam. A passing grade is required to earn the micro-credential.

Core Credentials

- ✓ SACA C-101 Associate-Basic Operations

(Time to Complete: Approximately 100 hours per Credential)

Adult Programs » Beyond Entry Level

Step 4 of The Road Map

Apprenticeship is a work based training that combines formal instruction with on-site , occupation-related training. Apprentices typically work 30-40 hours per week and receive classroom training through part-time attendance at AmSkills.

Using the apprentice model can help your business grow its own talent and build a motivated and qualified workforce. Employers use apprentice programs to recruit and train new employees and to upskill their current workforce.

Current Competency based (CB) Apprenticeship programs sponsored by AmSkills include the following:

- ✓ CNC Operator: Milling/Turning
 - Length 1 year
- ✓ Electro-Mechanical Technician
 - Length 2 years
- ✓ Industrial Maintenance Technician
 - Length 2 years

Potential access to state funding resources, such as free or reduced training apprentice costs may be available.

Adult Programs » Apprenticeships

Apprenticeship Track: **CNC Operator: Milling & Turning**

The CNC Operator program prepares students for entry-level CNC Operator/Machinist roles. Students learn key foundational principles and practices of CNC (Computer Numerical Control) machine operation, giving them the skills and knowledge needed to work in manufacturing environments successfully. The course covers how to safely and properly use tooling, fixtures, and precision measurement devices with respect to CNC Parts and CNC machining centers.

Core Credentials Possible

- ✓ NIMS Benchwork Specialist
- ✓ NIMS CNC Mill Operations I
- ✓ NIMS CNC Lathe Operations I

(Time to Complete: *Approximately 100 hours per credential***)**

Apprenticeship Track: **Electro-Mechanical Technician (Mechatronics)**

SACA's Certified Industry 4.0 Operations Specialist certification prepares individuals to succeed as a team lead operator in modern production environments that use Industry 4.0 technologies. In this role, individuals will perform automated machine setup and adjustment, operate and monitor system operation, perform preventive and predictive maintenance, and analyze and optimize system operation.

Core Micro-Credentials Possible

- ✓ SACA C-101 Associate – Basic Operations (Pre-Apprenticeship)
- ✓ SACA C-102 Associate – Advanced Operations
- ✓ SACA C-103 Robot System Operations
- ✓ SACA C-211 Industry 4.0 Total Productive Maintenance

(Time to Complete: *Approximately 100 hours / Credential***)**

Industries Served: Manufacturing, Aerospace, Electronics, Semiconductor, Packaging

Adult Programs » Apprenticeships

Apprenticeship Track: **Industrial Maintenance Technician**

The Industrial Maintenance Technology (IMT) training program is a series of eLearning courses arranged into segments to best prepare industrial maintenance technicians for the career opportunities in industry. These areas begin with absolute basics of industry like basic maintenance operations and basic mechanical, hydraulic, pneumatics, and electrical skills before moving on to process control, electronic control, welding, and piping.

Core Duty Areas

- ✓ Duty Area 1: Maintenance Operations
- ✓ Duty Area 2: Basic Mechanical Systems
- ✓ Duty Area 3: Basic Hydraulic Systems
- ✓ Duty Area 4: Basic Pneumatic Systems
- ✓ Duty Area 5: Electrical Systems
- ✓ Duty Area 6: Electronic Control Systems
- ✓ Duty Area 7: Process Control System
- ✓ Duty Area 8: Maintenance Welding
- ✓ Duty Area 9: Maintenance Piping

(Time to Complete: *Approximately 300 hours***)**

Industries Served: Manufacturing, Energy, Construction, Utilities, Packaging

Specialty Training Programs

Circuit Technology Training Inc (CTTI) - Soldering

Certifications Possible

- ✓ J-STD001 – Requirements for Soldered Electrical and Electronic Assemblies
- ✓ IPC-A-610 – Acceptability of Electronic Assemblies

Amatrol Regional Training Center – Instructor Training

- ✓ Foundation Technologies – Summer

Foundation Technologies is a course for college, industry, and high school instructors who teach the basic concepts and skills using an array of essential technologies. The course features hands-on familiarization with some of Amatrol's basic skills training systems as well as curriculum in an interactive multimedia format. It features hands-on familiarization with learning systems in AC/DC electricity, pneumatics, machining, electrical control, electrical fabrication, measurement tools, and mechanical fabrication.



**FOR ADDITIONAL
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