



CERTIFICATIONS BY PROGRAM

NC3 CERTIFICATIONS: INTEGRATION IS KEY

NC3 certifications can be applied across multiple industries creating flexible, stackable, and relevant credentials to students and employers of all kinds. NC3 certifications are built to be integrated into an existing technical program to enhance what was already being taught. By integrating NC3 industry certifications into existing courses, classrooms achieve the best of both worlds by introducing kinesthetic learning opportunities, industry-valued competencies, and providing students with employment opportunities and relevant job-ready skills.

CTE FUNDAMENTALS FOR EVERY PROGRAM

These NC3 certifications are critical, fundamental skills that can be applied across all of your CTE programs creating flexible, stackable, and relevant credentials to students and employers of all types. These certifications may be easily added into your classroom first as a foundational skillset.

Snap-on

- Precision Measuring Instruments (*Starrett*)
- Torque Fundamentals
- Multimeter

Festo

- Fundamentals of Electricity - AC/DC

Trane

- Data Analytics

3M

- Personal Protective Equipment (PPE)

TRANSPORTATION

Snap-on

- Automotive Diagnostics
- Wheel Service & Alignment
- On-Car Brake Lathe
- Battery Starting and Charging
- Diesel Diagnostics
- Tire Pressure Monitoring Systems (TPMS)

Kubota

Off-Road Diesel Technologies

- Pre-Delivery Inspection (PDI) & Assembly
- Preventative Maintenance Inspection (PMI)
- Maintenance Procedures
- Electrical
- Hydraulics
- Engine
- Powertrain
- Brakes, Steering, Suspension (BSS)

BUILDING TRADES/ENERGY EFFICIENCY

Trane

Residential HVAC Systems

- Airflow
- Refrigeration Diagnostics
- Variable Speed Motors
- Air-to-Air Heat Pumps

Building Automation Systems

- Intro to HVAC Systems Building Control
- Automation, Spaces, Equipment, Security
- Set Points, Scheduling, Area & VAS, Points
- Chiller Plant Control, Alarms, Events
- Data Logs, Reports, Backup

Greenlee

Electrical Trades

- Hand Bending
- Basic Conduit Bending
- Advanced Conduit Bending
- Wire Pathways
- Fishing Conduits/Raceways and Cable Pulling
- Electrical Branch/Series and Service Level Wire Termination
- 3-Phase Sequencing and Motor Rotation
- Insulation & Ground Rod Resistance Testing

Snap-on

- Building Performance Instruments
- Drop Prevention Systems

3M

- VentureClad Tape



CERTIFICATIONS BY PROGRAM

MANUFACTURING

Festo

STEM Lab

- Introduction to Mechatronics

Level 1: Fundamentals

- Fundamentals of Industry 4.0
- Fundamentals of Fluid Power - Hydraulics
- Fundamentals of Fluid Power - Pneumatics
- Fundamentals of Electricity - AC/DC
- Fundamentals of Robotics
- Fundamentals of Mechanical Systems
- Fundamentals of Sensor Technology
- Fundamentals of PLCs - Allen Bradley/Siemens
- Certified Industry 4.0 Associate Fundamentals (Capstone)

Level 2: Advanced Mechatronics

- Applied Robotics
- Applied Fluid Power
- Applied Product ID Fundamentals
- Applied Industry 4.0
- Applied PLC Technology II: Allen Bradley/Siemens

Snap-on/Starrett

- Precision Measuring Instruments (PMI)
- Advanced Measuring Instruments (AMI)

Dremel/Palmer Hamilton

- Idea Builder 3D Printing
- Laser Cutter

Tormach/Palmer Hamilton

- XS Router Desktop CNC Mill Machine

WELDING

Lincoln Electric

Intro

- Welding Safety*
- Principles of Welding*
- Shielded Metal Arc Welding (SMAW)
- Flux-Cored Arc Welding (FCAW)
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW)

Advanced

- Shielded Metal Arc Welding (SMAW)
- Flux-Cored Arc Welding (FCAW)
- Gas Metal Arc Welding (GMAW)

AVIATION

Snap-on

- Structural Sheetmetal
- Drop Prevention Systems

Snap-on/DMC

- Precision Electrical Termination (PETC)

HEALTH & SAFETY

3M

Personal Protective Equipment (PPE)

- Hearing Protection
- Head, Eye & Face Protection
- Respiratory Protection

Snap-on

- Drop Prevention Systems
- Hand Tool Safety*
- Electrical Safety *

Lincoln Electric

- Welding Safety*

STEM

Dremel/Palmer Hamilton

- Idea Builder 3D Printing
- Laser Cutter

Tormach/Palmer Hamilton

- XS Router Desktop CNC Mill Machine

Festo

- Introduction to Mechatronics
- Fundamentals of Electricity

DIGITAL LITERACY

Certiport

- IC3 Digital Literacy

Dremel/Palmer Hamilton

- Idea Builder 3D Printing
- Laser Cutter

* Certificate of knowledge included with select certification packages.