



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

- Torque Fundamentals
- Multimeter
- Hand Tool Identification & Safety

Starrett

- Precision Measuring Instruments

Trane

- Data Analytics

Festo

- Fundamentals of Electricity - AC/DC

3M

- Personal Protective Equipment (PPE)

Swift

- App Development with Swift - Associate
- App Development with Swift - Certified User

TRANSPORTATION

Snap-on

- Electrical Intro, Measurements & Circuits
- Automotive Scanner Diagnostics
- Wheel Service and Alignment
- Advanced Driver Assistance Systems (ADAS)
- Rotor Matching Master Technician
- Battery, Starting and Charging
- Diesel Scanner Diagnostics
- Tire Pressure Monitor (TPMS)

Thermo King

- Transport Refrigeration - Level 1
- Transport Refrigeration - Level 2

Kubota

Off-Road Diesel Technologies

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

CONSTRUCTION SCIENCE & ENERGY EFFICIENCY

Trane

Data Analytics

- Data Analytics I: Harness the Power of Data
- Data Analytics II: Optimizing Energy & Sustainability with Data Analytics

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

Snap-on

- Building Performance Instruments
- Tools @ Height: Drop Prevention Systems

3M

- VentureClad Tape

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

Copeland

- HVAC/R System Fundamentals
- HVAC/R System Compressor Operation & Maintenance
- HVAC/R System Troubleshooting

RIDGID

- Manual & Hand-Held Power Threading
- Power Machine Threading
- Pressing for HVAC & Plumbing



CERTIFICATIONS BY PROGRAM

MANUFACTURING

Festo

STEM Lab

- Introduction to Mechatronics
- Introduction to Exploring Electricity
- Introduction to Exploring Electronics
- Introduction to Process Engineering

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 Industry 4.0
- Applied Fluid Power
- Applied Product ID Fundamentals
- Applied Robotics
- Applied Mechanical Systems
- Applied Industrial Motor Controls
- Applied Principles of Smart Sensors
- Applied PLC Technology II: Allen Bradley/Siemens
- Certified Industry 4.0 Technician - Applied

Snap-on/Starrett

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

Dremel/Palmer Hamilton

- Idea Builder 3D Printing

Tormach/Palmer Hamilton

- XS Router Desktop CNC Mill Machine

WELDING

Lincoln Electric

Introductory

- 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)
- Thermal Cutting: Oxyfuel
- Thermal Cutting: Plasma Arc
- Thermal Cutting: Air Carbon Arc
- Welding Math & Measurement
- Fabrication 1

Advanced

- Welding Math & Measurement
- Shielded Metal Arc Welding (SMAW)
- Flux-Cored Arc Welding (FCAW)
- Gas Metal Arc Welding (GMAW)
- Advanced Gas Tungsten Arc Welding (GTAW)
- Pipe Welding: ASME Introductory
- Pipe Welding: ASME Intermediate
- Pipe Welding: API Introductory
- Pipe Welding: API Intermediate
- Basic Welding Print Reading
- Fabrication 2

Coming Fall 2023

- Submerged Arc Welding (SAW)
- Advanced Gas Metal Arc Welding (GMAW) - Aluminum
- Advanced Gas Metal Arc Welding (GMAW) - Stainless Steel

AVIATION

Snap-on

- Structural Sheetmetal
- Tools @ Height; 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

- Tools @ Height: Drop Prevention Systems
- Hand Tool Safety*
- Electrical Safety*

Lincoln Electric

- Welding Safety*

STEM

Dremel/Palmer Hamilton

- Idea Builder 3D Printing

Tormach/Palmer Hamilton

- xsTECH Router Desktop CNC Mill Machine

Festo

- Introduction to Mechatronics
- Introduction to Exploring Electricity
- Fundamentals of Electricity

Swift

- App Development with Swift - Associate
- App Development with Swift - Certified User

DIGITAL LITERACY

Certiport

- IC3 Digital Literacy

Dremel/Palmer Hamilton

- Idea Builder 3D Printing

Swift

- App Development with Swift - Associate
- App Development with Swift - Certified User

* Certificate of knowledge included with select certification packages.