

# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

### Manufacturing Skill Standards Council

### Certified Production Technician

**224 Industry/Career Skills - 140+ Hours of Learning**  
**39 Self-Paced Learning Units**

The **Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT)** credential is a 12-point credential pathway recognized by the Ohio Department of Education. This **MSSC-endorsed** Amatrol Learning System was developed specifically to prepare students for the four individual certificate assessments that are necessary to obtain this 12-point credential.

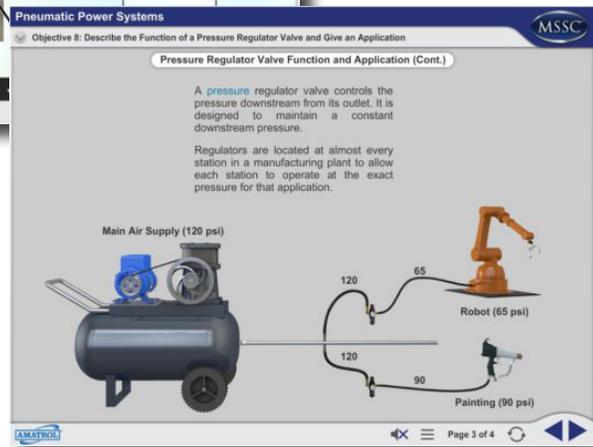
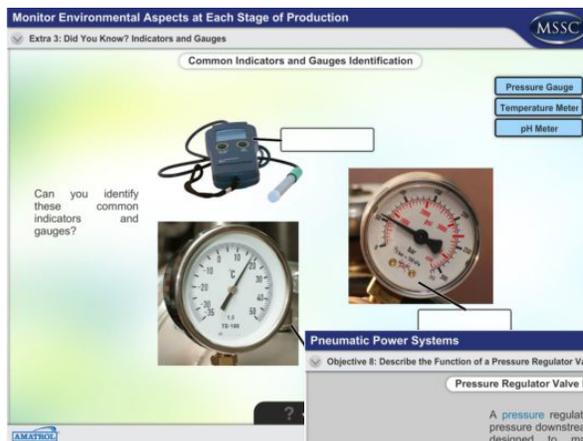


### Safety

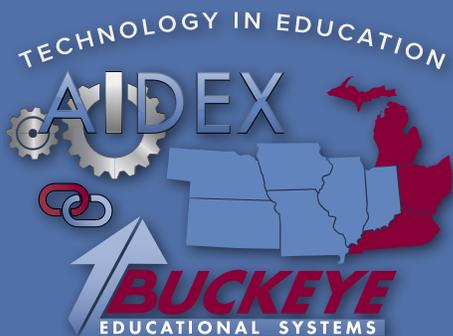
- Production Teams
- Training & Leadership
- Safety Organization
- Personal Protective Equipment
- Fire & Electrical Safety
- Work Area Safety
- Hazardous Material Safety
- Tool & Machine Safety
- Material Handling Safety

### Quality

- Multi-view Drawings
- Assembly Drawings & Fasteners
- Geometric Dimensioning & Tolerancing
- Basic Measurement
- Precision Measurement Tools
- Dimensional Gauging
- Quality Systems
- Introduction to SPC
- Control Charts
- Continuous Improvement



MSSC has endorsed Amatrol's eLearning as the **preferred and only** curriculum for its Certified Production Technician (CPT) credential. Amatrol's skills-focused, interactive curriculum was developed specifically to support and align with all four individual certificate assessments in the CPT credential.



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*Career Field - Manufacturing*

*Manufacturing Skill Standards Council*

*Certified Production Technician*

## Manufacturing Process & Production

- Mechanical Principles
- Mechanical Linkages
- Gear Drives
- Machining Processes
- Machine Tooling
- Machine Operations
- Equipment Procedures
- Production Planning & Workflow
- Production Control



## Put it All Together with the Skill Boss

The **Amatrol Skill Boss** is the perfect hands-on trainer to accompany the MSSC CPT Amatrol Learning System. The Skill Boss is designed to assess over 59 hands-on skills needed by today's advanced manufacturing production areas including assembly and machine operation. No other system boasts this many technologies in a portable platform!

- Electric Motor
- Variable Frequency Drive
- Human-Machine Interface
- Pneumatic Pick-and-Place Module
- Electro-Pneumatic DCVs
- Parts Feeder Module
- Programmable Logic Controller
- Lockout/Tagout Device
- and more!

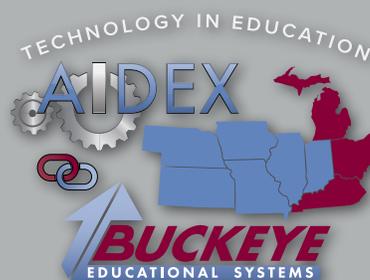


## Maintenance Awareness

- Welding
- Basic Electrical Circuits
- Electrical Measurements & Power
- Pneumatic Power Systems
- Basic Pneumatic Circuits
- Principles of Pressure & Flow
- Lubrication Concepts
- Bearings & Couplings
- Belt & Chain Drives
- Machine Control Concepts,
- Automation, & Operation Modes
- Electrical Motor Control

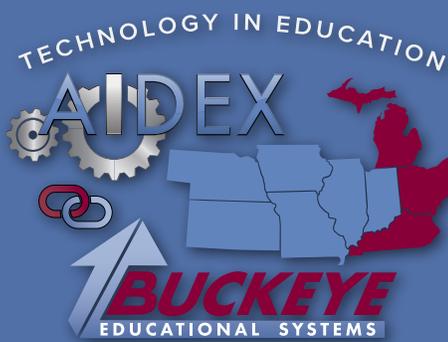


## CONTACT US



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# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

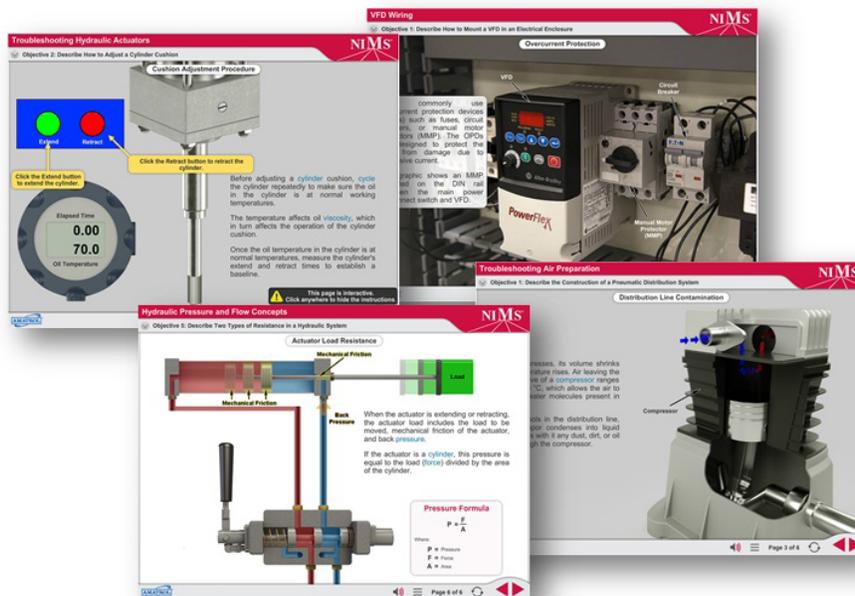
### Amatrol - NIMS ITM Curriculum

eLearning Exclusively Endorsed by



## 100% NIMS-Aligned Interactive Curriculum

- Dynamic Problem-Solving Interactions
- Various Techniques Maximize Learning
- Basic to Advanced Knowledge Building
- Industry-Relevant Procedures
- Covers All Nine ITM Duty Areas
- Topic-Based Modules Target Duty Areas
- Vivid 3D Graphics & Animations
- eLearning Provides 24/7 Access



Comprehensive Interactive Multimedia for Individual, Self-Paced, or Group Learning Flexibility

Instructor's Guides Available for Each Duty Area

**Three 12-Point Industry-Recognized Credentials Available!**

# Pathways to 12-Point Industry Credentials

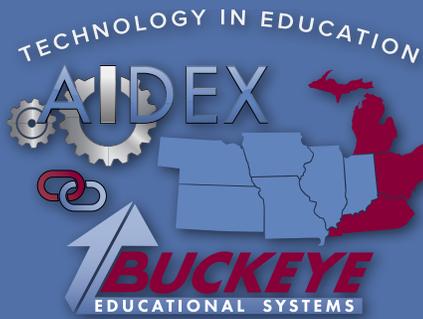
*Career Field - Manufacturing*  
*Amatrol - NIMS ITM Curriculum*

## Hands-On Training Systems

Amatrol provides hands-on Learning Systems that are **100%** aligned to skills outlined and required by all 9 **NIMS Industrial Technology Maintenance Duty Areas**.



Instructor Guides provide a cross-reference of the Amatrol hands-on activities with **100%** of the required skills for the corresponding **NIMS Credentialing Achievement Record (CAR)**.



# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

### NIMS ITM Maintenance Operations, Piping, and Welding

The **NIMS Manufacturing - Maintenance Operations, Welding, & Piping** credential is one of three 12-point options from the NIMS Industrial Technology Maintenance duty areas. This **NIMS-endorsed** Amatrol Learning System was developed specifically to prepare students for the Credentialing Achievement Records and Theory assessments that are necessary to obtain this 12-point credential.



## Duty Area 1: Maintenance Operations

32 Modules - 66 hrs. Theory - 45 hrs. Hands-On

- 950-MPF1 - Mechanical Fabrication
- 950-RGB1 - Rigging Systems Level 1
- 95-RGB2 - Rigging Systems Level 2

### Accompanying Equipment:



950-MPF1



950-RGB1



950-RGB1

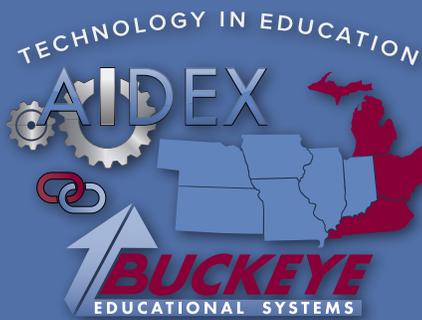


95-RGB2

95-RGB2



NIMS has endorsed Amatrol's eLearning as the **preferred and only** curriculum for its Industrial Technology Maintenance (ITM) credentials. Amatrol's hands-on, skills-focused interactive training was developed specifically to support and align with all nine Duty Areas of the NIMS ITM certification.



# Pathways to 12-Point Industry Credentials

*Career Field - Manufacturing  
NIMS ITM Maintenance  
Operations, Piping, and Welding*

## Duty Area 9: Maintenance Piping

5 Modules - 16 hrs. Theory - 24 hrs. Hands-On

- 950-PS1 - Piping Learning System

Accompanying Equipment:



950-PS1

## Duty Area 8: Maintenance Welding

4 Modules - 15 hrs. Theory - 45 hrs. Hands-On

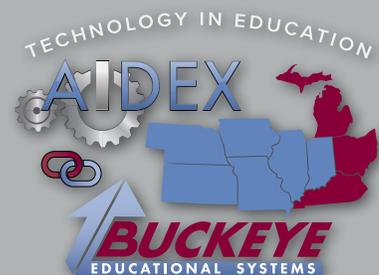
- 950-WT1 - Welding Technology Training System

Accompanying Equipment:



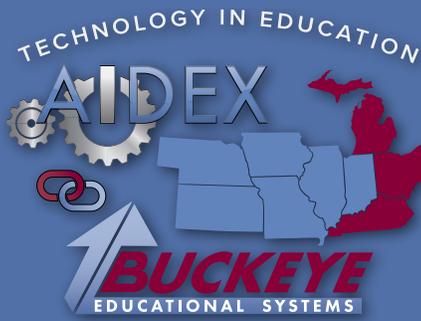
950-WT1

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# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

### NIMS ITM Mechanical & Fluid Power

The **NIMS Manufacturing - Mechanical & Fluid Power** credential is one of three 12-point options from the NIMS Industrial Technology Maintenance duty areas. This **NIMS-endorsed** Amatrol Learning System was developed specifically to prepare students for the Credentialing Achievement Records and Theory assessments that are necessary to obtain this 12-point credential.

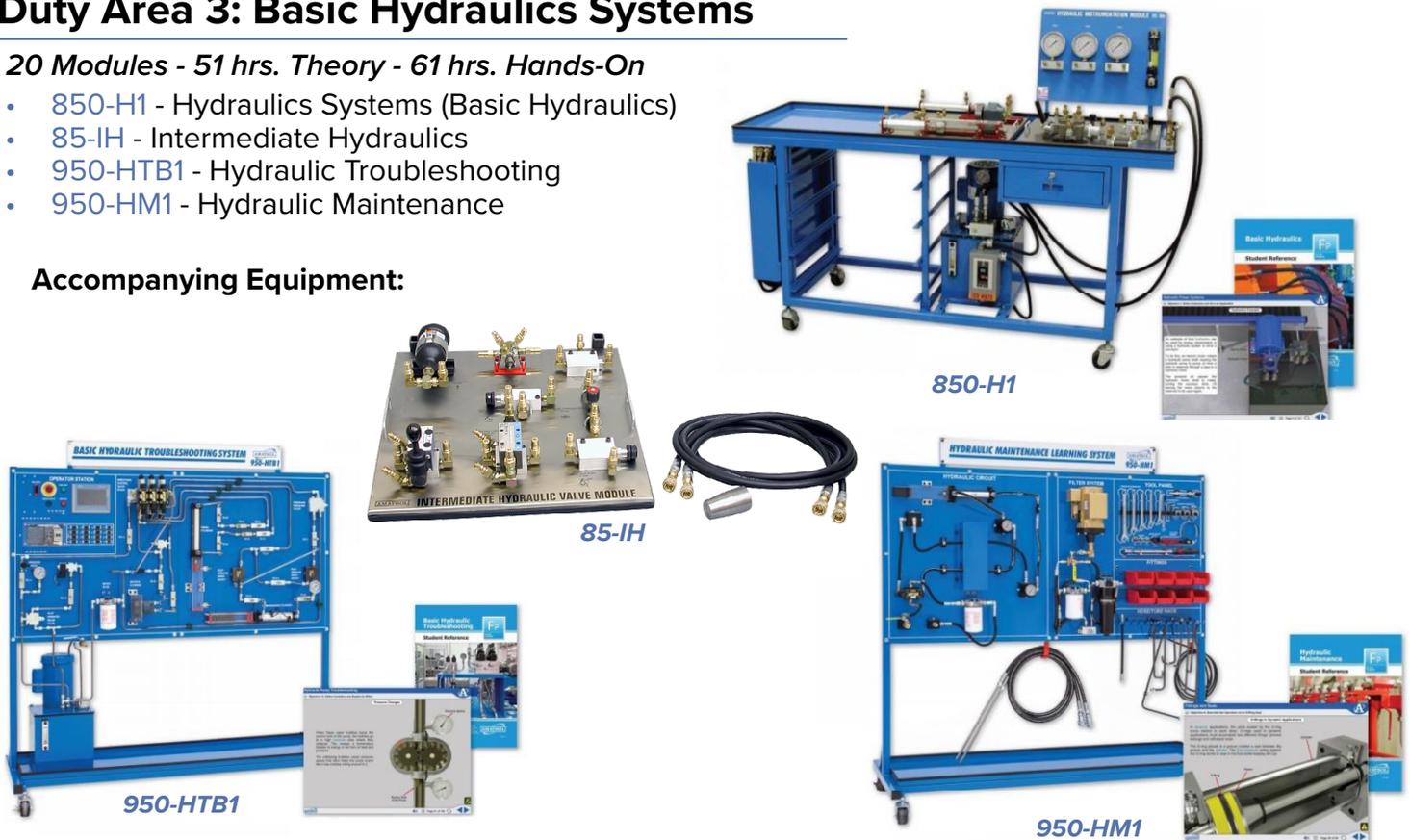


### Duty Area 3: Basic Hydraulics Systems

20 Modules - 51 hrs. Theory - 61 hrs. Hands-On

- 850-H1 - Hydraulics Systems (Basic Hydraulics)
- 85-IH - Intermediate Hydraulics
- 950-HTB1 - Hydraulic Troubleshooting
- 950-HM1 - Hydraulic Maintenance

#### Accompanying Equipment:



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# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

### NIMS ITM Mechanical & Fluid Power

#### Duty Area 4: Basic Pneumatic Systems

14 Modules - 36 hrs. Theory - 41 hrs. Hands-On

- 850-P1 - Pneumatics Systems (Basic Pneumatics)
- 85-IP - Intermediate Pneumatics
- 990-PTB1 - Pneumatic Troubleshooting

Accompanying Equipment:



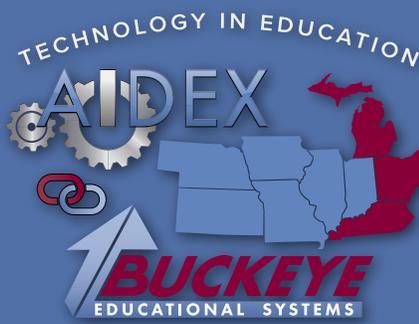
#### Duty Area 2: Basic Mechanical Systems

20 Modules - 46 hrs. Theory - 54hrs. Hands-On

- 970-ME1 - Mechanical Drives - Level 1
- 970-ME2 - Mechanical Drives - Level 2
- 97-ME2A - Laser Alignment
- 990-MES1 - Measurement Tools

Accompanying Equipment:





# Pathways to 12-Point Industry Credentials

## Career Field - Manufacturing

### NIMS ITM Electrical Systems, Electronics, & Process Control

The **NIMS Manufacturing - Electrical Systems, Electronics, & Process Control** credential is one of three 12-point options from the NIMS Industrial Technology Maintenance duty areas. This **NIMS-endorsed** Amatrol Learning System was developed specifically to prepare students for the Credentialing Achievement Records and Theory assessments that are necessary to obtain this 12-point credential.



### Duty Area 5: Electrical Systems

**35 Modules - 88 hrs. Theory - 92 hrs. Hands-On**

- T7017A - AC/DC Electrical Training System
- 85-MT2 - Basic Electrical Machines
- 85-MT2E - AC/DC Motor Troubleshooting
- 85-MT5 - Motor Control
- 850-MT6B - Industrial Wiring Systems
- 85-MT6BB - Soldering
- 90-EC1A - Hands-On Relay Control Skills
- 990-SN1 - Electric Sensors
- 85-MT6BA - PLC/VFD Wiring Installation



85-MT5

### Accompanying Equipment:



T7017A

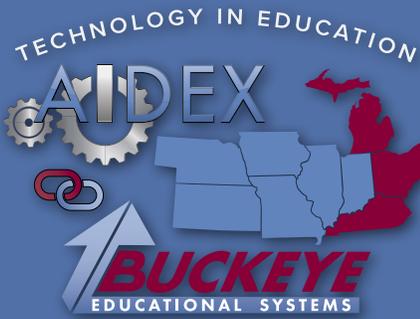


85-MT2E

85-MT2



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# Pathways to 12-Point Industry Credentials

*Career Field - Manufacturing  
NIMS ITM Electrical Systems,  
Electronics, & Process Control*

## Duty Area 5: Electrical Systems (continued)

35 Modules - 88 hrs. Theory - 92 hrs. Hands-On

- T7017A - AC/DC Electrical Training System
- 85-MT2 - Basic Electrical Machines
- 85-MT2E - AC/DC Motor Troubleshooting
- 85-MT5 - Motor Control
- 850-MT6B - Industrial Wiring Systems
- 85-MT6BB - Soldering
- 90-EC1A - Hands-On Relay Control Skills
- 990-SN1 - Electric Sensors
- 85-MT6BA - PLC/VFD Wiring Installation



85-MT6BB

### Accompanying Equipment:



850-MT6B & 85-MT6BA



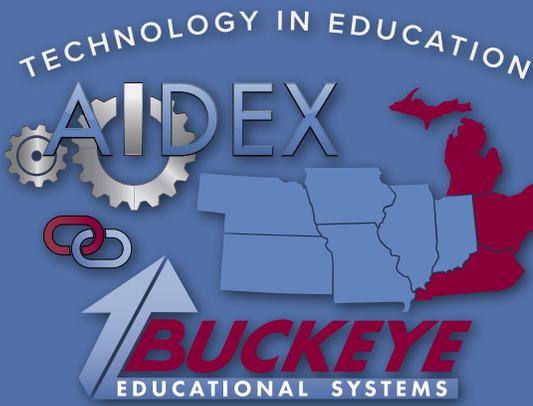
90-EC1A



990-SN1



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Career Field - Manufacturing  
NIMS ITM Electrical Systems, Electronics, & Process Control

## Duty Area 6: Electronic Control Systems

27 Modules - 82 hrs. Theory - 97 hrs. Hands-On

- 990-ELE 1 - Power & Control Electronics
- 85-MT5C - Variable Frequency AC Drive
- 990-PAB53 - PLC Trainer with Troubleshooting

### Accompanying Equipment:



85-MT5C



990-ELE1



990-PAB53

## Duty Area 7: Process Control Systems

11 Modules - 36 hrs. Theory - 35 hrs. Hands-On

- T5552 - Level/Flow Process Control
- T5554-C1-A - PID Controller

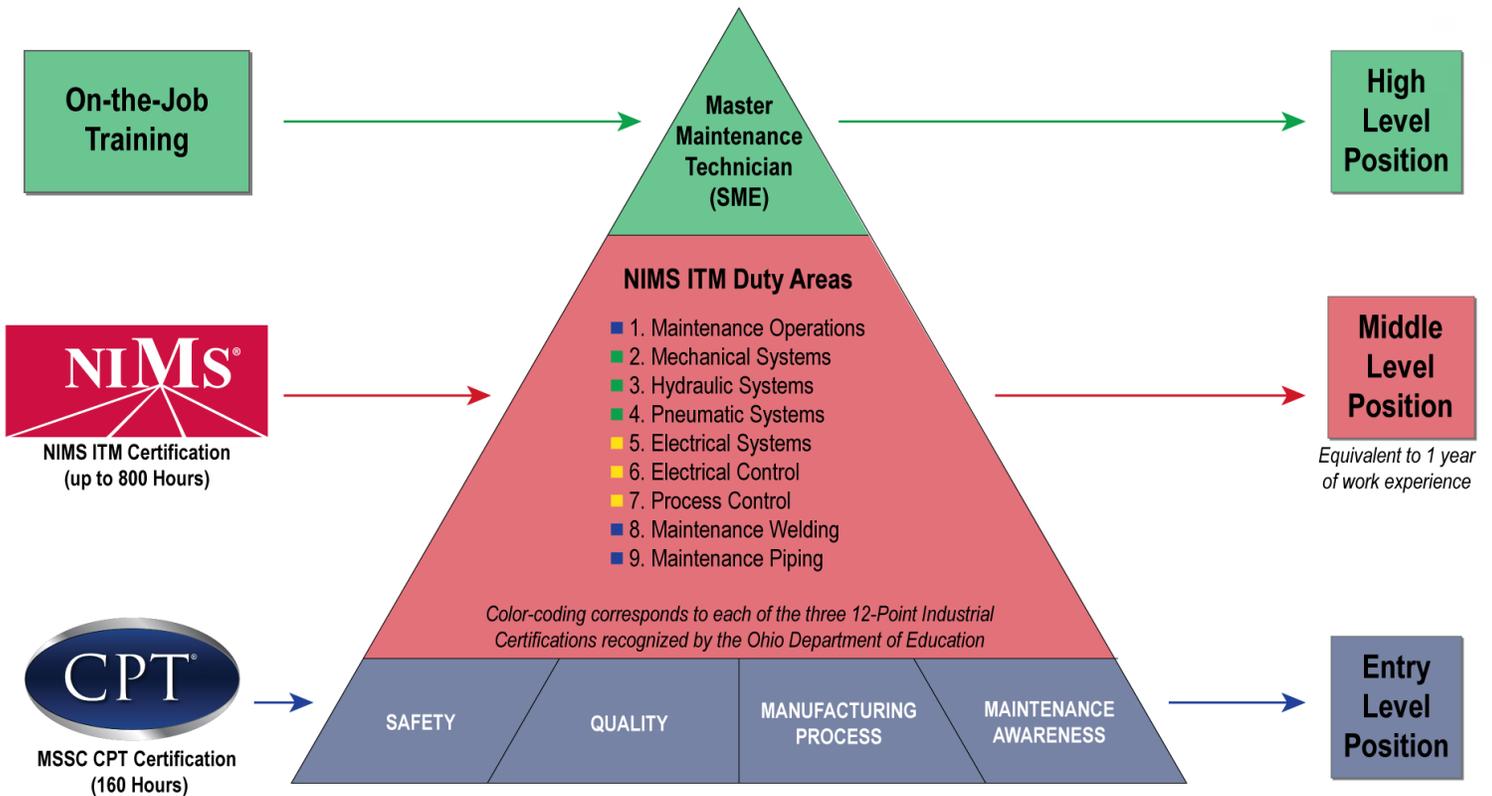
### Accompanying Equipment:



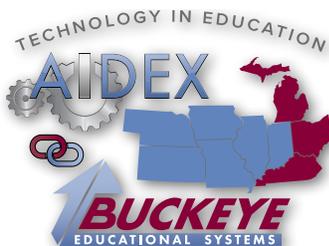
T5552



T5554-C1-A



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