

Schmidt Training and Technology Center

CPT & CPT PLUS (PATHWAYS TO SUCCESSFUL CAREERS) COMPREHENSIVE LEARNING AND ASSESSMENT WITH SKILL BOSS

ENGLISH &
SPANISH

Increase employer and worker confidence by requiring evidence of hands on skills.

Designed to prepare employees with the next generation skills to work in a computer-driven, data-intensive advanced manufacturing workplace.

- CPT – Interactive, virtual 3-D simulation learning
- CPT Plus - 55+ "Hands-on" Skills and Assessment from MSSC National Standards with Skill Boss

Now Offering

CPT / CPT PLUS, PRE-APPRENTICESHIP BOOT CAMP* ZTEC 645

Average time for course Completion: 195 hours
Investment - \$1,600 (includes registration, CPT E-learning, Skill Boss Training, and 5 Assessments through CPT Plus Certification)

*Value Bundle

Bundling CPT Certification and CPT Plus Skills Assessment

Students suggested completion time 10-12 weeks after registration.



Certified Production Technician (CPT)

E-learning (Assessment and Certification options) - *See page 31 for language deliver and assessment / certification options
Average time for each module course Completion: 35 hours

Safety

Key Competencies Taught and Assessed:

- Perform safety and environmental inspections
- Perform emergency drills and participate in emergency teams
- Identify unsafe conditions and take corrective action
- Provide safety orientation for all employees
- Train personnel to use equipment safely

Quality Practices & Measurement

Key Competencies Taught and Assessed:

- Check calibration of gages and other data collection equipment
- Inspect materials and product/process, Suggest continuous improvements
- Document the results of quality tests
- Communicate quality problems.
- Take corrective actions to restore or maintain quality

Manufacturing Processes & Production

Key Competencies Taught and Assessed

- Identify customer needs
- Determine resources available for the production process
- Set up equipment for the production process
- Set team production goals, make job assignments
- Coordinate work flow with team members and other work groups
- Perform and monitor the process to make the product
- Document product and process compliance with customer requirements

Maintenance Awareness

Key Competencies Taught and Assessed

- Perform preventive maintenance and routine repair
- Monitor indicators to ensure correct operations
- Perform all housekeeping to maintain production schedule
- Recognize potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with: Electrical, Pneumatic, Hydraulic, Machine automation systems; Lubrication processes; Bearings and couplings; Belts and chain drives

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**CPT & CPT PLUS (PATHWAYS TO SUCCESSFUL CAREERS)
COMPREHENSIVE LEARNING AND ASSESMENT WITH SKILL BOSS**

**STUDENTS &
EMPLOYERS**

Skill Boss, designed to meet MSSC standards, is a hands-on skill training & assessment system. CPT Plus certification proves successful demonstration of hand on skills in electronic, electrical, fluid power and mechanical systems.

CPT Plus* – Hands-on Training and Assessment

Average time for course Completion: 46 hours

Skill Boss Evaluates over 60 Essential Manufacturing Skills Including:

A. Safety

- Perform pre-start up inspection
- Demonstrate lockout/tagout procedure
- Confirm safety interlocks on guard are functional
- Confirm zero energy state of all power sources
- Locate and interpret safety data sheet(s)

B. Quality

- Perform measurements using tape measure, caliper, micrometer, & dial indicator
- Compare measurements to GDT specifications on a print
- Measure & verify shaft runout falls within specified tolerance

*** Requires Full CPT Certification prior to registration.**

C. Production Processes

- Locate parts & fasteners for assembly operation using a blueprint
- Assemble parts using Allen wrenches, wrenches, & screwdrivers
- Use torque wrench to properly tighten a fastener
- Navigate menus on an HMI
- Manually operate cylinders
- Perform an emergency shutdown
- Reset Alarm and restart machine
- Measure cycle time

D. Maintenance Awareness

- Adjust pneumatic lubricator's drip rate
- Adjust pressure regulator's setting
- Adjust actuator speed using flow control valves
- Install a pillow block bearing and shaft
- Install a flexible coupling and shaft
- Align and tension a belt drive
- Lubricate a bearing using a grease gun
- Drain an air filter
- Connect pneumatic circuit using a schematic
- Adjust various sensors.

E-learning only			
Average Time for Course Completion: 35 hours			
Investment - \$165 per E-learning Course			
MSSC E-learning Course			
Safety	ZTEC 807 - English	ZTEC 811 - Spanish	ZTEC 815 - Bilingual
Quality Practices & Measurement	ZTEC 808 - English	ZTEC 812 - Spanish	ZTEC 816 - Bilingual
Manufacturing Processes & Production	ZTEC 809 - English	ZTEC 813 - Spanish	ZTEC 817 - Bilingual
Maintenance Awareness	ZTEC 810 - English	ZTEC 814 - Spanish	ZTEC 818 - Bilingual

MSSC Skill Building		Skill Boss - Skills only
Safety		ZTEC 641 - English only Avg time : 7 hours, Investment \$165
Quality Practices & Measurement		ZTEC 642 - English only Avg time : 5 hours, Investment \$120
Manufacturing Processes & Production		ZTEC 643 - English only Avg time : 15 hours, Investment \$360
Maintenance Awareness		ZTEC 644 - English only Avg time : 19 hours, Investment \$455

CPT 1		
E-Learning with Certification / Per Course		
Average Time for Course Completion: 37 hours		
Investment - \$285 (includes E-learning and 1 Assessment)		
ZTEC 819 - English	ZTEC 823 - Spanish	ZTEC 827 - Bilingual
ZTEC 820- English	ZTEC 824 - Spanish	ZTEC 828 - Bilingual
ZTEC 821 - English	ZTEC 825 - Spanish	ZTEC 829 - Bilingual
ZTEC 822 - English	ZTEC 826 - Spanish	ZTEC 830 - Bilingual
CPT Plus		
Skill Boss with Assesment		
<div style="display: flex; align-items: center; justify-content: center;"> = 1 + 2 + <div style="border: 1px solid black; padding: 5px; text-align: center;"> \$205 Assessment for CPT Plus </div> </div>		
See page 30 for 35% Bundle Savings		

**These courses have an open start date.
Contact 610.372.4721, ext 5716 or jvecchio@racc.edu for details.**