Skill Boss is designed to assess the hands-on skills needed by today’s advanced manufacturing production areas including assembly & machine operation. No other system boasts this many technologies in a portable platform.

**Skill Boss: Comprehensive Assessment**

Skill Boss evaluates over 60 essential manufacturing skills including:

<table>
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<th>Assessment Areas</th>
<th>Skill Boss Evaluates over 60 Essential Manufacturing Skills Including:</th>
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| 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) |
| 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 |
| 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 |
| 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 |

**CPT & CPT Plus: Pathways to Successful Careers**

MSSC’s full Certified Production Technician (CPT) certification consists of four stackable credentials: Safety, Quality Practices & Measurement, Manufacturing Processes & Production, & Maintenance Awareness. The CPT Plus certification compliments the full CPT credential by providing employees with proof that an individual has the comprehensive technical knowledge and hands-on skills needed to be immediately productive.
CPT Plus certification provides employers further proof of an individual’s skill set by requiring successful demonstration of hands-on skills in electronic, electrical, fluid power, & mechanical systems.

Skill Boss, designed to meet MSSC standards, is a hands-on skill training & assessment system that integrates seamlessly into any manufacturing program and is required for CPT Plus certification.

Skill Boss provides the tool you need to teach or evaluate an individual’s skills as they install, adjust, & troubleshoot components on this fully functional mechatronics system, applicable to both discrete parts & process manufacturing.

Performing a real-world sorting & finishing process, Skill Boss automatically feeds parts into the system where they are rejected or accepted to continue the process. If accepted, the parts are buffed with a polishing wheel before a 3-axis robotic pick & place system picks up the part and moves it into “finished goods” based on its material.