



Credential in Certified Production Technician

What have you made today?

Manufacturing Skill Standards Council (MSSC) is the gold standard for certification of front-line manufacturing and logistics workers and offers the only two credentials in those industries which have been ANSI accredited under ISO Standard 17024. MSSC's standards-based, industry-led national programs offer workers and students an opportunity to document their skills and knowledge, allow educators and training providers to meet the needs of the regional workforce and local industry, and provide employers with a pipeline of potential employees with a standardized set of core competencies.

The CPT program is comprised of four modules:

- **BMM 101: Key Principles of Manufacturing**
 - Module 1: Safety
 - Module 2: Quality Practices and Measurement
- **BMM 110: Technology in Advanced Manufacturing**
 - Module 3: Manufacturing Process and Production
 - Module 4: Maintenance Awareness

These modules are delivered in a 15-week hybrid learning format.

Goodwin University offers an additional Green Production Certificate to those interested in green manufacturing.

Students who successfully complete the 4 modules will earn their CPT credentials from MSSC. Earning the CPT credential allows the award of 6 college credits to be applied to an Associate Degree in Business Administration with a concentration in Manufacturing Management. These credits can be applied to continuing your education in our associate degrees and bachelor's degree in manufacturing.

Curriculum

Safety

- Work in a safe and productive manufacturing workplace
- 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
- Suggest processes and procedures that support safety of work environment
- Fulfill safety and health requirements for maintenance, installation and repair
- Monitor safe equipment and operator performance
- Utilize effective, safety-enhancing workplace practices

Manufacturing process and production

- 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
- Communicate production and material requirements and product specifications
- Document product and process compliance with customer requirements
- Prepare final product for shipping or distribution

Quality practices and measurement

- Participate in periodic internal quality audit activities
- Check calibration of gauges and other data collection equipment
- Suggest continuous improvements
- Inspect materials and product/process at all stages to ensure they meet specifications
- Document the results of quality tests
- Communicate quality problems
- Take corrective actions to restore or maintain quality
- Record process outcomes and trends
- Identify fundamentals of blueprint reading
- Use common measurement systems and precision measurement tools

Maintenance awareness

- 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 systems
 - Pneumatic systems
 - Hydraulic systems
 - Machine automation systems
 - Lubrication processes
 - Bearings and couplings
 - Belts and chain drives

Benefits for workers

- Increase your value with this nationally recognized, portable credential
- Confirms your high-performance skills and improves your career opportunities

Benefits for employers

- A credentialed workforce gives you a greater competitive advantage
- With a credentialed workforce you will experience fewer errors and enjoy more efficient production operations
- Decrease recruitment costs by providing applicants with industry-recognized credentials

Goodwin University is a nonprofit institution of higher education and is accredited by the New England Commission of Higher Education (NECHE), formerly known as the New England Association of Schools and Colleges (NEASC).