



CPT COURSE OVERVIEW

**HIGH PERFORMANCE
MANUFACTURING
PRODUCTION TECHNICIAN**

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CPT Course Overview:

This set of classes provides opportunities for an individual to build foundational skills for *high-performance manufacturing*.

Looking back in history, manufacturers often have been happy with employees who just “did their jobs”. High performance manufacturers realize people are capable of so much more. These organizations expect employees to work very differently than in the past. They expect individuals to think more and contribute more. Each person winds up having to know all about production as a whole (safety, quality, manufacturing processes, and maintenance awareness).

Participants will examine fundamentals and interrelationships in areas for production (manufacturing processes, maintenance awareness, quality, and safety). “Stepping back” and understanding manufacturing as a system will help individuals choose to be more flexible, evaluate impact of decisions, solve problems, be innovative and contribute more fully to your organization.

As a student in these classes, individuals will be challenged with a blended learning approach including lectures, self-paced studies, online labs, “homework”, presentations and individual & group activities. These will each contribute to developing *high-performance manufacturing* skills.



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MSSC High Performance Manufacturing Production Technician

Course Title: MSSC – High Performance Manufacturing Production Technician

Contact: **Modular** – eLearning approximately 35 hours per content area or approximately 140 hours for all four content areas. Each unit is designed for delivery in 2, 4, 6, or 8 hour sessions w/ Optional Unit Resources and Review

Fast Track - 15-18 hours per content area or approximately 70 hours for all four content areas in 2, 4, 6, or 8 hour sessions w/ Optional Review

*Fast Track is designed specifically to help experienced workers secure CPT credentials more readily through fully online course delivery. Individuals taking Fast Track **must** have at least 2-5 years of production experience before attempting Fast Track.*

Materials: MSSC CPT Instructor Guide
MSSC e-Learning powered by Amatrol, (2006, 2009, 2013)

Instructional Delivery Method: Lecture, Group Activities, On-Line Labs

Instructor(s): MSSC Authorized Instructors

Course Description:

The MSSC Courses examine four (4) content areas for production: **Safety, Quality, Manufacturing Processes, and Maintenance Awareness**. Students will be exposed to manufacturing concepts and actions that can produce higher quality products, increase productivity, achieve greater customer satisfaction, and assure a safe and healthy work environment. Each of the 4 areas are broken down with definitions, examples, and exercises. Practical cases / examples are investigated and discussed. Capitalizing on a blended learning approach, students experience lectures, self-pace studies, on-line labs, and individual and group activities.

Course Objectives:

- Learn the history, global view and economic impact of manufacturing
- Develop individual and group communication and problem solving skills
- Learn manufacturing safety requirements and individual practices that assure a safe workplace
- Develop a broad understanding of manufacturing sub-industries and their related products, processes, challenges and “best practices”
- Learn basic equipment/tool applications and safe operations
- Gain insight to maintenance practices
- Develop understanding of electrical, mechanical, and fluid power systems