



CERTIFIED PRODUCTION TECHNICIAN (CPT)

Requirements: 80 hours

Required Exams: Safety, Quality Practices & Measurements, Manufacturing Process & Production, Maintenance Awareness

Elective Exam: Green Production

The purpose of the Certified Production Technician (CPT) program is to recognize through certification individuals who demonstrate mastery of the core competencies of manufacturing production at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The goal of the CPT certification program is to raise the level of performance of production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness.

The CPT program consists of five individual certificate modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; Maintenance Awareness and Green Production. Candidates must earn the first four certificates to receive the full CPT certification. (Note: At this time Green is not required for full-CPT certification.)

CERTIFICATION ALIGNMENT: Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT); Occupational Safety and Health Administration – 30 Hour Safety Training (OSHA 30)

COURSE OBJECTIVE: Understand the foundational technical information with the knowledge skills needed to prepare them for an advanced, high-performance manufacturing environment.

CONTENT TOPICS:

Unit 1: Workplace Essentials - Provides training on employability skills needed in the manufacturing community to sustain the day-to-day success of their organizations.

Module 1: Human Behavior and Ethics

Module 2: Communications Skills

Module 3: Stress and Time Management

Module 4: Team Building and Conflict Resolution

Module 5: Counseling and Conflict Resolution

Module 6: Intermediate Math

Unit 2: Safety Awareness - Provides baseline knowledge and skills needed to maintain a safe and productive work environment and ensure the safe use of equipment in the workplace.

Module 1: OSHA Standards

Module 2: Hazard Communications

Module 3: Personal Protective Equipment

Module 4: Fire Safety

Module 5: Electrical and Tool Safety

Module 6: Lockout/Tagout Safety

Module 7: Ergonomics

Module 8: Bloodborne Pathogens



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Unit 3: Production and Processes - Develops existing knowledge and skills needed for the production of products to meet customer needs while ensuring the manufacturing process meets business requirements.

Module 1: Introduction to Manufacturing
Module 2: The Production Process
Module 3: Manufacturing Essentials

Module 4: Lean and Six Sigma Basics
Module 5: Business Basics
Module 6: Supply Chain

Unit 4: Maintenance Awareness - Provides the core knowledge of preventive maintenance and enhances existing skills in the identification and performance of equipment maintenance used in the production process.

Module 1: Root Cause Analysis
Module 2: Industrial Print Reading
Module 3: Electrical Basics
Module 4: Fluid Power Basics

Module 5: Machine Basics
Module 6: Preventive Maintenance
Module 7: Total Productive Maintenance

Unit 5: Quality Assurance – Enhances existing knowledge and skills needed to maintain quality and implement continuous improvement processes, and ensure that product and process variances meet quality standards.

Module 1: Introduction to Quality Management
Module 2: Introduction to Measuring Process Quality
Module 3: Quality Improvement Systems
Module 4: Problem Solving

LAC delivers its CPT Courses through well-established instructors with the background and experience to support organizations and individuals. There are three types of Courses to meet various individual and training needs. These Courses are designed (a) to align with MSSC Standards and (b) to help individuals enhance their core knowledge and skills for production work from entry-level to front-line supervisory level.