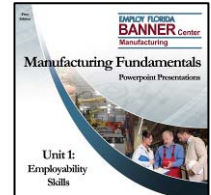


Manufacturing Fundamentals - Curriculum Outline

94 Contact Hours - Aligned with the MSSC CPT certification to provide the fundamental skills & knowledge to entry-level workers for Florida's diverse manufacturing sector

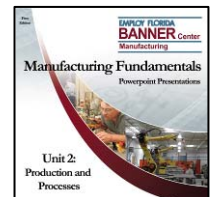
Unit 1: Employability Skills – Provides training on employability skills needed in the manufacturing community to sustain the day-to-day success of their organizations.

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|---------------------------------|---------------------------|
| Module 1: Human Behavior | Module 5: Time Management |
| Module 2: Ethics | Module 6: Team Building |
| Module 3: Communications Skills | Module 7: Shop Math |
| Module 4: Stress Management | |



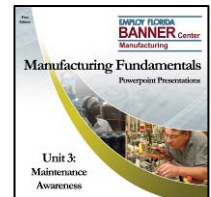
Unit 2: Production and Processes – Develops foundational knowledge and skills needed for the production of products to meet customer needs while ensuring the manufacturing process meets business requirements.

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|---|------------------------------|
| Module 1: Introduction to Manufacturing | Module 6: Quality Tools |
| Module 2: Introduction to Industry | Module 7: Six Sigma |
| Module 3: The Production Process | Module 8: Lean Manufacturing |
| Module 4: Manufacturing Essentials | Module 9: Business Basics |
| Module 5: Manufacturing Instruments | Module 10: Supply Chain |



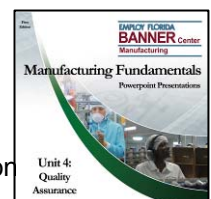
Unit 3: Maintenance Awareness – Provides the core knowledge of preventive maintenance and enhances existing skills in the identification and performance of equipment maintenance used in the production process.

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|---|--|
| Module 1: Tools and Their Uses | Module 7: Machine Basics |
| Module 2: Bearing Maintenance | Module 8: Total Productive Maintenance |
| Module 3: Industrial Print Reading | Module 9: Pump Maintenance |
| Module 4: Electrical Fundamentals | Module 10: Preventive Maintenance |
| Module 5: Fluid Power Fundamentals | Module 11: Machine Maintenance |
| Module 6: Electrical Motor Fundamentals | |



Unit 4: Quality Assurance – Develops foundational knowledge and skills needed to maintain quality and implement continuous improvement processes, and ensure that product and process variances meet quality standards.

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| Module 1: Introduction to Quality | Module 4: Quality Improvement and Assessment |
| Module 2: Managing Quality | Module 5: Nonconforming Products & Corrective Action |
| Module 3: Measuring Process Quality | Module 6: Problem Solving |



Unit 5: 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.

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|---|--------------------------------------|
| Module 1: OSHA Standards | Module 6: Fire Safety |
| Module 2: Safety Inspections | Module 7: Hand and Power Tool Safety |
| Module 3: Hazard Communications-MSDS | Module 8: Lockout/Tagout Safety |
| Module 4: Personal Protective Equipment | Module 9: Ergonomics |
| Module 5: Respiratory Protection | Module 10: Bloodborne Pathogens |

