

# MANUFACTURING ASSOCIATE



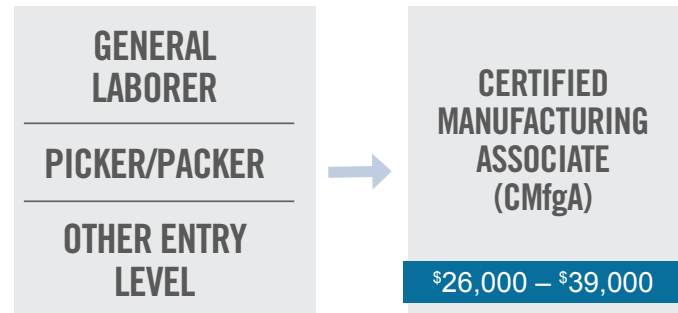
## PREPARE FOR A CAREER AS A MANUFACTURING ASSOCIATE

Manufacturing Associates assist in the operations of a manufacturing facility and the products that it produces.

Upon completion of this program, students will have an understanding of:

- Basic manufacturing-related math calculations
- Basic safety terms, practices, and regulations as they pertain to manufacturing
- Basic quality and Lean principles
- Basic inspection instruments, tolerancing, print reading, and troubleshooting principles
- Common tools, safety best practices for common and late-stage assembly processes
- Common components of CNC machine tools and controls
- The basics of industrial robotics, including types, applications, and programming methods and safety protocols
- Basic Additive Manufacturing steps, methods, processes, and materials

Students that complete the coursework have the option to sit for Certified Manufacturing Associate exam (CfMgA) and earn an industry certification that validates knowledge.



Salary information is the average national salary range for the job role.  
Source: U.S. Bureau of Labor Statistics

The average national salary range  
for manufacturing associate is

**\$26,000 - \$39,000**

Source: U.S. Bureau of Labor Statistics



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## These are the Units and Courses required to complete the Manufacturing Associate program:

### Unit I: Intro to Manufacturing

Introduction to Assembly 101  
Introduction to CNC Machines 201  
Introduction to Robotics 201  
Introduction to Additive Manufacturing 111

### Unit II: Lean and Quality

5S Overview 151  
Lean Manufacturing Overview 101  
Quality Overview 111  
Troubleshooting 181

### Unit III: Math & Measurement

Basic Measurement 101  
Units of Measurement 112  
Math Fundamentals 101  
Math: Fractions and Decimals 111

### Unit IV: Inspection & OSHA

Blueprint Reading 131  
Basics of Tolerance 121  
Tools for Threaded Fasteners 235  
Intro to OSHA 101

### Unit V: Manufacturing Safety I

Ergonomics 102  
Personal Protective Equipment 111  
Hand and Power Tool Safety 201  
Fire Safety and Prevention 181

### Unit VI: Manufacturing Safety II

Bloodborne Pathogens 161  
Safety for Assembly 211  
Robot Safety 211  
Lockout/Tagout Procedures 141  
SDS and Hazard Communication 151

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This online upskilling opportunity provides new skills to help you get ahead. Classes are accessible on desktops/laptops, tablets, and smartphones via the Tooling U-SME app. Each course takes approximately one hour to complete.