

CNC PROGRAMMER

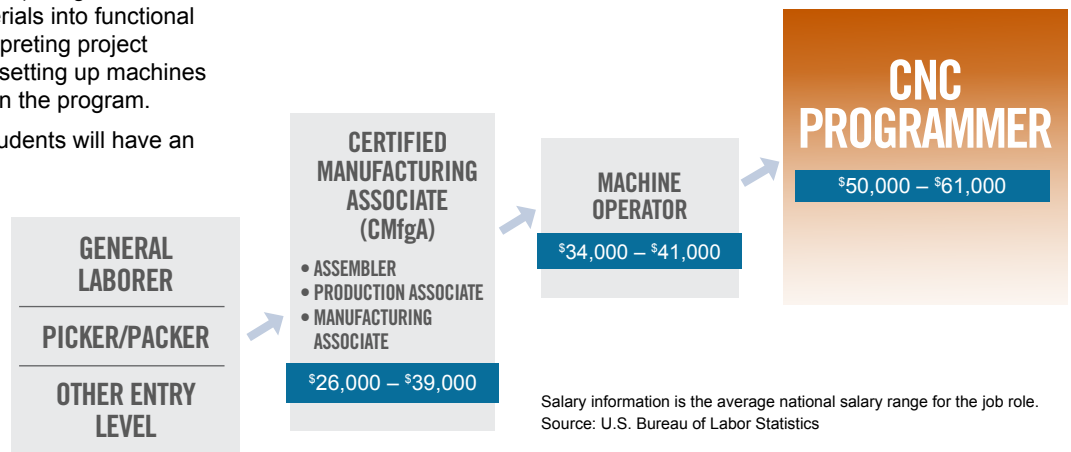


PREPARE FOR A CAREER AS A CNC PROGRAMMER

CNC (computer numerically controlled) Programmers work with machinery which cuts raw materials into functional items. They are responsible for interpreting project blueprints, designing programs and setting up machines to produce the component outlined in the program.

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

- CAD and CAM systems and how they are used in CNC machining operations
- The process calculations of creating a part program for a CNC lathe and mill
- The use of canned cycles in programming operations
- Symbols, terminology, rules, and concepts of geometric dimensioning and tolerancing
- The uses of in-line inspection, or error-proofing, in a production environment
- Popular ferrous and nonferrous metals and their properties
- Cutting variables for lathe and mill operations
- Quality goals, methods, and tools
- The Cartesian coordinate system



The average national salary range for **CNC programmers** is **\$50,000 - \$61,000**

Source: U.S. Bureau of Labor Statistics



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These are the Units and Courses required to complete the Quality Technician program:

Unit 1: Introduction to Metal Cutting

Introduction to Metals 121
Introduction to CAD and CAM for Machining 241
Speed and Feed for the Lathe 301
Speed and Feed for the Mill 311

Unit 2: CNC Programming I

Creating a CNC Turning Program 301
Creating a CNC Milling Program 302
Calculations for Programming the Lathe 311
Calculations for Programming the Mill 312

Unit 3: GD&T and Robotics

Introduction to GD&T 301
Major Rules of GD&T 311
In-Line Inspection Applications 381
Automated Systems and Control 135
Robot Axes and Pathways 280

Unit 4: CNC Cycles and Quality

Canned Cycles for the Lathe 321
Canned Cycles for the Mill 322
Intro to Six Sigma 171
Quality and Customer Service 175
Metrics for Lean 231

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.