



Reach for your Dreams

Discover a Career as a **MACHINE TOOL AND QUALITY CONTROL SPECIALIST**

at Central Virginia Community College

Pursue this career if you enjoy:

- Working with machines and your hands
- Being very detail-oriented and communicating effectively
- Using basic math and computer skills
- Using dial indicators, digital calipers, micrometers, and tape measures
- Having integrity and technical ability
- Noticing the flaws or deficiencies in finished products or materials

**START
HERE**

**High School Diploma,
Career Change, Upskill,
Veteran, Adult Learner, GED,
Dual Enrollment**

BENEFICIAL CREDENTIALS OFFERED AT CVCC:

- **Machine Technology Fundamentals, Career Studies Certificate (CSC)**
(32 weeks)
- **Machine Technology, Career Studies Certificate (CSC)**
(32 weeks)
- **Computer Numerical Control, Career Studies Certificate (CSC)**
(16 weeks)
- **Machine Shop Certificate**
(32 weeks)
- **Machine Tool and Quality Control Diploma**
(4 semesters)

Learn more, earn more

CAREER OPPORTUNITIES FOR ADVANCEMENT

Average Earning Potential: \$52,000–\$122,700 per year*

TIME	CAREER	EXPERIENTIAL LEARNING
1–3 YEARS	Machine Parts/Material/ Quality Control Inspector	• Specialized classes for quality control • On-the-job experience
2–4 YEARS	CMM Programmer/Operator Dimensional Inspector	• Specialized classes for quality control • On-the-job experience
3–6 YEARS	Top Dimensional/NDT Inspector/ Engineering Technician	• Specialized classes for quality control • On-the-job experience
5+ YEARS	Manager	• Technologist, auditor, calibration services • Quality control representatives

Explore And Speak To An Advisor

Counseling/Advising Department

(434) 832-7800



College has never been more affordable—many students qualify for low- or no-cost options! Contact us to see if you can attend for no-cost.

Compensation averages on reverse side.

YES, YOU CAN! | CentralVirginia.edu



Machining and Quality Control Careers Offer:

- Excellent salaries and benefits
- Opportunities for advancement
- Job growth and stability
- Career challenges and rewards



Scan to view
CVCC programs
and register
today!

Don't see your company listed?
Join us as a G3 Ambassador!

Contact Workforce Solutions at
(434) 832-7607



G3 AMBASSADORS

These companies partner
with CVCC to promote
the pathways below.

- Aerofin Corporation
- AMG, Inc.
- Belvac Production Machinery, Inc.
- BWX Technologies, Inc
- Lynchburg Machining LLC
- Parker Hannifin OES Division
- S & S Machine
- Total Plastics Solutions, LLC
- T.R.U. Ball Archer



Scan to view the
current list of G3
Ambassadors.

TIER 1:

MACHINE TOOL & QUALITY

JOB TITLE(S):

Machine Parts/
Material/
Quality Control Inspector

PAY:

\$20-\$30/HOUR

EDUCATION AND EXPERIENCE:
1-3 Years

TIER 2:

MACHINE TOOL & QUALITY

JOB TITLE(S):

CMM Programmer/
Operator
Dimensional Inspector

PAY:

\$30-\$40/HOUR

EDUCATION AND EXPERIENCE:
2-4 Years

TIER 3:

MACHINE TOOL & QUALITY

JOB TITLE(S):

Top Dimensional/NDT
Inspector/
Engineering Technician

PAY:

\$40-\$50/HOUR

EDUCATION AND EXPERIENCE:
3-6 Years

TIER 4:

MACHINE TOOL & QUALITY

JOB TITLE(S):

Manager

PAY:

\$90,000+/YEAR

EDUCATION AND EXPERIENCE:
5+ Years

WHAT YOU WILL DO:

- Work from blueprints and use specialized tools and machinery to test products
- Assess geometric characteristics of machined parts and products
- Verify compliance design specifications compliance
- Ensure accuracy of product reliability and functionality features

SKILLS REQUIRED:

- Logical deduction in problem-solving
- English language ability
- Detail oriented
- Basic blueprint reading
- Effective communication skills
- Basic math and computer hardware skills
- Working knowledge of specialized precision measuring devices

WHAT YOU WILL DO:

- Perform any/all types of in-process and final inspections using CMM machine and established programs
- Inspect, accept, or reject all products and components, fabricated or in process
- Uses all types of precision measuring instruments and computerized inspection equipment

SKILLS REQUIRED:

- Intermediate technical and communication skills
- Knowledge of metrology, intermediate blueprint reading, coordinate measuring machines
- GD&T interpretation skills
- Critical documentation skills
- Continual improvement process

WHAT YOU WILL DO:

- Work from blueprints, contract specifications, written and verbal instructions, etc.
- Set up, calibrate, and use nondestructive testing equipment
- Perform radiographic testing to identify defects
- Establish examination processes for objects in accordance with safety regulations and applicable specifications

SKILLS REQUIRED:

- Advanced math and computer software skills
- Advanced measuring, calibrating, and calculating equipment to detailed specifications
- Specialized mechanical skills
- Knowledge of industry specialized tools and machinery in testing products

WHAT YOU WILL DO:

- Oversee operations to meet production standards
- Collect data to improve processes
- Meet, interview, hire staff/students/managers/quality inspectors
- Access, evaluate, manage, write, and analyze inspection reports and multiple projects
- Create metrics to improve uptime, productivity, and quality

SKILLS REQUIRED:

- Oversee operations to ensure they meet production standards
- Establish, maintain, and nurture positive working relationships
- Strong analysis, problem-solving, negotiation, conflict management, and time management skills

* Compensation averages should be used as a guide. There are numerous factors that impact actual compensation. These estimates do not include overtime, which can be a sizable addition to base pay. Years of service and training recommendations should also be used as a guide. Company requirements vary. Note: Some companies may require pre-employment testing. Please check the job requirements. These may include an EEL pre-employment test or a physical abilities test.
Lynchburg, Virginia MSA hourly rate source: onetonline.org.