

Quality Technician

Associate of Applied Science (AAS) Degree

Technical Requirements 45

General Education/MnTC 15

Total Credits 60

Program Information

This program is designed to train student in the tools and processes used to ensure the quality of finished goods and products. Graduates of this degree will have the skills necessary to be employed as a quality assurance technician in a variety of manufacturing sectors. With completion of this degree students will also obtain 15 Minnesota Transferable Credits meeting three different goal areas.

Program Learning Outcomes

Upon completion of this degree, students will be able to competently use tools and processes utilized in industry for the inspection of finished goods. Students completing the AAS degree combined with experience in the field will also be able to test for the American Society of Quality (ASQ) Certification for a Quality Technician.

Students will be able to perform the following tasks in their new career field.

1. Demonstrate document control skills.
2. Competently utilize tools to inspect finished goods of any kind.
3. Ensure quality within the supply chain for consumer safety.
4. Analysis of collected data.
5. Create and maintain inspection documentation.
6. Interact professionally with coworkers.
7. Interpret engineering drawing utilizing Geometric Dimensioning and Tolerancing.
8. Understand basic manufacturing practices.
9. Knowledgeable in regulatory standards and requirements.
10. Able to work in a management team.
11. Creating a quality management system.
12. Calibration of measurement gauging.
13. Creation and requisitioning on measurement fixtures.
14. Analysis of Statistical Data for Process control.
15. Create metrics of cost of quality.
16. Have an ethical foundation of the importance of quality management.
17. Able to identify continuous improvement opportunities.

Certifications

This program seeks to provide students sufficient knowledge and comprehension of the requirements pursuant to the American Society for Quality (ASQ) which in conjunction with on the job experience provides a tested certification recognized globally.

Course Prerequisites

ENGL 2105 Business & Technical Writing Prerequisite is ENGL 0102 or 0960 and READ 0900 or 0960 or 78 on Accuplacer Reading or appropriate test score

MATH 1550 Introduction to Statistics Prerequisite is MATH 0900 or 76 on Accuplacer Elementary Algebra or other appropriate test score.

Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a "C" or better.

Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Transfer Opportunities

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx) (www.anokatech.edu/BecomeStudent/Transfers.aspx)

Industry Information

This field is under-represented in higher education and no program has the required skills in statistical analysis. Quality Technicians are the individuals who assure that the quality of manufactured products meet the requirements of the customer and regulatory bodies. Quality technicians work in clean, environmentally controlled areas with regulated temperature and humidity to ensure part consistency. This is a mid-level position in the field with large opportunity for advancement and increased wage growth.

Wages/Outlook/Advancement

Wage information is available from the [Minnesota Department of Employment and Economic Development](https://mn.gov/deed/job-seekers/job-outlook/) (https://mn.gov/deed/job-seekers/job-outlook/).

Technical Education: 45 Credits

<input type="checkbox"/> ADSC 1171 Microsoft Excel	2
<input type="checkbox"/> MACH 1090 Machine Fundamentals	2
<input type="checkbox"/> MACH 1121 Metrology	2
<input type="checkbox"/> MACH 1132 Blueprint Reading I	3
<input type="checkbox"/> MACH 1231 Blueprint Design/ CAD II	1
<input type="checkbox"/> MACH 1240 Geometric Dimensioning & Tolerancing	3
<input type="checkbox"/> QUAL 1200 Measurement & Test Equipment	4
<input type="checkbox"/> QUAL 1210 Quality Concepts & Assurance	2
<input type="checkbox"/> QUAL 2300 Applied GD&T Concepts	4
<input type="checkbox"/> QUAL 2310 Product & Process Control	2
<input type="checkbox"/> QUAL 2320 Gauging Calibration.....	4
<input type="checkbox"/> QUAL 2330 Quality Ethics	2
<input type="checkbox"/> QUAL 2340 Fixturing for Inspection	3
<input type="checkbox"/> QUAL 2400 Process Performance Capability & Reliability	2
<input type="checkbox"/> QUAL 2410 Validation Documentation & Regulatory Compliance	3
<input type="checkbox"/> QUAL 2420 Continuous Improvement	2
<input type="checkbox"/> QUAL 2430 Quantitative Methods & Tools.....	



(continued)

2019-2020

Quality Technician

Associate of Applied Science (AAS) Degree

General Education/MnTC Requirements: 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum (MnTC) are required. MnTC credits must be from three different goal areas. Student is required to take:

- ENGL 2105 Business & Technical Writing 4
- MATH 1550 Intro to Statistics 4
- SPCH 1200 Interpersonal Communication..... 3
- General Education/MnTC Courses..... 4

Also see: Quality Inspector certificate

Start Dates

Fall Semester.....August

Faculty Contact

[Matt Rogers](mailto:Matt.Rogers@anokatech.edu)..... 763-576-4088

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Sample Program Sequence

Full Time

		First Semester	Second Semester
1st YEAR	ADSC 1171	2	MACH 1090..... 2
	ENGL 2105	4	MACH 1231..... 1
	MACH 1121	2	MACH 1240..... 3
	MACH 1132.....	3	QUAL 1200..... 4
	MATH 1550	4	QUAL 1210..... 2
	TOTAL	15	SPCH 1200..... 3
		TOTAL	15
2nd YEAR	Third Semester		Fourth Semester
	QUAL 2300.....	4	MnTC..... 4
	QUAL 2310.....	2	QUAL 2400..... 2
	QUAL 2320.....	4	QUAL 2410..... 3
	QUAL 2330.....	2	QUAL 2420..... 2
	QUAL 2340.....	3	QUAL 2430..... 4
	TOTAL	15	TOTAL