**Quality Technician**

**Associate of Applied Science (AAS) Degree**

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**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.
- Demonstrate document control skills.
- Competently utilize tools to inspect finished goods of any kind.
- Ensure quality within the supply chain for consumer safety.
- Analysis of collected data.
- Create and maintain inspection documentation.
- Interact professionally with coworkers.
- Interpret engineering drawing utilizing Geometric Dimensioning and Tolerancing.
- Understand basic manufacturing practices.
- Knowledgeable in regulatory standards and requirements.
- Able to work in a management team.
- Creating a quality management system.
- Calibration of measurement gauging.
- Creation and requisitioning on measurement fixtures.
- Analysis of Statistical Data for Process control.
- Create metrics of cost of quality.
- Have an ethical foundation of the importance of quality management.
- 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.

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**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.

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**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
- Anoka Technical College Transfer Student

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**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.

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**Wages/Outlook/Advancement**
Wage information is available from the [Minnesota Department of Employment and Economic Development](https://www.mn.gov/doe/).

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**Start Dates**
Fall Semester ............................... August

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**Program Sequence**

**Fall Semester** ................................................. 15
- ADSC 1171 Microsoft Excel ................................. 2
- ENGL 2105 Business & Technical Writing ............... 4
- MACH 1121 Metrology ........................................ 2
- MACH 1132 Blueprint Reading I ........................... 3
- MATH 1550 Introduction to Statistics ..................... 4

**Spring Semester** ................................. 15
- MACH 1090 Machine Fundamentals ......................... 2
- MACH 1231 Blueprint Design/ CAD II ..................... 1
- MACH 1240 Geometric Dimensioning & Tolerancing ...... 3
- QUAL 1200 Measurement & Test Equipment ............... 4
- QUAL 1210 Quality Concepts & Assurance ................. 2
- SPC 1200 Interpersonal Communication .................. 3

**Fall Semester** ................................................. 15
- QUAL 2300 Applied GD&T Concepts ...................... 4
- QUAL 2310 Product & Process Control ................... 2
- QUAL 2320 Gauging Calibration ............................ 4
- QUAL 2330 Quality Ethics .................................. 2
- QUAL 2340 Fixturing for Inspection ....................... 3
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Spring Semester................................................................. 15
☐ QUAL 2400  Process Performance Capability & Reliability .... 2
☐ QUAL 2410  Validation Documentation & Regulatory .......... Compliance ................................................. 3
☐ QUAL 2420  Continuous Improvement ................................ 2
☐ QUAL 2430  Quantitative Methods & Tools.........................
☐ MnTC General Education Elective ......................................... 4

Faculty Contact
Tony Morgan ........................................................................ 763-576-4106
Todd Crawford ...................................................................... 763-576-4102

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

Also see: Quality Inspector certificate