

Quality Systems Technology



Engineering • Manufacturing • Industrial Technology

Career Pathways

The associate of applied science degree with specialization in quality systems technology is designed to prepare students to assume responsibilities in a wide variety of technical and management support roles. The program combines quality tools to monitor production and management practices to develop the environment that is most conducive to establishing quality systems in organizations. In today's business and industrial environments, "quality" is an integral part of the way companies are organized and managed to produce quality products and services.

Graduates of this program will be prepared for employment in the following areas:

- Inspector
- Lab technician
- Quality engineer
- Quality auditor
- Quality control technician
- Quality manager
- Quality technician
- Testing technician

In addition to completion of the required general education courses, students desiring the program designation on their transcript must complete the required core and specialized courses.

	Credits
Required General Education Courses	22
ENGL 101 (Written and Oral Communication) or ENGL 151 (English Composition 1)	3
MATH 162 (Introduction to Statistics)	3
¹ MATH.....	3
POLSC 151 (Introduction to Political Science)	3
PHY 101, 151 or CHEM 150 or 151	4
² Social Science/Humanities Elective.....	3
† CIS 130 (Introduction to Computer Information Systems)	3
Required Core Courses	38
1st Semester	
MATL 101 (Industrial Materials)	3
† CIS 109 (Spreadsheet Software)	3
Technical Electives.....	5
2nd Semester	
MDTC 109 (Mechanical Blueprint Reading)	2
MECH 102 (Manufacturing Processes)	4
QSTC 111 (Quality Management)	3
3rd Semester	
ENGL 102 (Business Writing) or	3
SPCH 151 (Communication Fundamentals)	
QSTC 115 (Statistical Process Control).....	3
QSTC 150 (Introduction to Metrology)	3
QSTC 160 (Team Problem Solving)	3

4th Semester

CIS 112 (Database Software).....	3
QSTC 230 (Documentation and Audit Preparation)	3

Total Degree Requirements **60**

Certificate Program: Quality Systems Technology

In addition to the two-year associate degree program, Monroe County Community College offers a certificate program in quality systems technology. We recognize that many employers place value on a certificate which authenticates specialized educational preparation. The program concentrates upon basic core courses with skill development and job upgrading being the primary objectives. All courses taken in the certificate program are applicable toward the associate of applied science degree.

QSTC 111 (Quality Management)	3
QSTC 115 (Statistical Process Control).....	3
QSTC 150 (Introduction to Metrology)	3
QSTC 160 (Team Problem Solving)	3
QSTC 230 (Documentation and Audit Preparation)	3
† CIS 109 (Spreadsheet Software)	3
MDTC 109 (Mechanical Blueprint Reading)	2
ENGL 102 (Business Writing) or SPCH 151 (Communication Fundamentals)	3
† MATH 121 (Technical Mathematics I).....	4

Total Certificate Requirements **27**

Basic Quality Technician Certificate

A certificate is also available for a basic quality technician. This certificate is designed for the entry-level production or quality assurance employee who seeks additional skills for assuming greater responsibility in a production environment.

QSTC 105 (SPC Basics).....	1
QSTC 111 (Quality Management)	3
QSTC 150 (Introduction to Metrology)	3
† CIS 109 (Spreadsheet Software)	3
MDTC 109 (Mechanical Blueprint Reading)	2

Total Certificate Requirements **12**

† Tech Prep course. See page 14.

¹ See page 37 for specific Industrial Technology Division mathematics requirements for the associate of applied science degree.

² See the social science/humanities alternatives listed on page 37.