



# M-Powered Level II Career Profile Quality Control Technician

<b>Job Description:</b>	Quality is the process of making sure a product meets the customer’s expectations. A quality technician supports the activities of the quality engineers and managers in day-to-day manufacturing activities and issues with customers and suppliers. The engineers define what methods and equipment will be used to measure the tolerance on the product blueprints, while technicians operate the test machines and collect data; perform inspections; checks, test and sampling procedures according to Standard Operating Procedures; performs in-process inspection and documents results.
<b>Skills/Knowledge Needed:</b>	<p>Quality Technician skills include:</p> <ul style="list-style-type: none"> <li>• Excellent communication</li> <li>• Great attention to detail</li> <li>• Strong problem-solving</li> <li>• Proficient in reading and interpreting blueprints</li> </ul> <p>Additional knowledge:</p> <ul style="list-style-type: none"> <li>• Production and processing: Knowledge of how products are made and supplied.</li> <li>• English language: Knowledge of the meaning, spelling, and use of the English language.</li> </ul>
<b>Interest in:</b>	<ul style="list-style-type: none"> <li>• Consider support from their employer important. They like to be treated fairly and have supervisors who will back them up. They prefer jobs where they are trained well.</li> <li>• Consider independence important. They like to make decisions and try out ideas on their own. They prefer jobs where they can plan their work with little supervision.</li> <li>• Have realistic interests. They like work activities that include practical, hands-on problems and solutions. They like to work with plants, animals, and physical materials such as wood, tools, and machinery. They often prefer to work outside.</li> <li>• Have conventional interests. They like work activities that follow set procedures, routines, and standards. They like to work with data and detail. They prefer working where there is a clear line of authority to follow.</li> </ul>
<b>Education/Experience:</b>	High school diploma, biotech certificate, or A.S./equivalent and 0-5 years experience in quality assurance; must be familiar with industry regulatory requirements and Good Laboratory/Manufacturing Practice
<b>Alternate Titles:</b>	Quality Control Technician/Analyst; Quality Assurance Documentation Specialist; Validation Specialist

*M-Powered Program, a joint effort between Hennepin Technical College & HIREd, is funded by the US Department of Labor Hennepin Technical College, an affirmative action, equal opportunity employer and educator.*

*M-Powered has Veteran preference of admission.*

*For more information, please visit: [www.m-powered.info](http://www.m-powered.info)*



## Knowledge and Skills Obtained at Level II

Course	Description
Quality Control METS1050 3 Credits	This course introduces students to basic quality control principles, techniques, and procedures used by organizations to assure customer satisfaction of a product and/or service. This course includes quality control concepts utilizing common measurement methods and tools used for inspection.
Quality Assurance MACH2440 2 Credits	This course will expose the student to quality control concepts utilizing common manufacturing inspection methods. Inspection tools will include CMM machines, the digital height stand, profilometer, etc. SPC and the ISO 9000 series will also be discussed. The student will review and create inspection forms and charts.
Medical Device Quality Systems METS1135 3 Credits	This course introduces the student to aspects of medical device manufacturing quality systems that fall under federal and international regulation. The student will gain knowledge of US regulations including: Quality Systems Requirements (QSR), Good Lab Practice (GLP), current Good Manufacturing Practice (cGMP), and Quality Systems Inspection Techniques (QSIT). International regulations such as ISO 13485 will also be covered. Emphasis will be placed on understanding how domestic and international regulations affect design, development, documentation, production, corrective and preventive action, and site inspection in manufacturing facilities. Students will practice proper documentation techniques and participate in mock audits.
<b>HTC Credits Earned:</b>	<b>8</b>
<b>Credentials Taken:</b>	<b>American Society of Quality (ASQ):</b> Quality Inspector

## Career Pathway

Career Progression	Wage	Continued Education
Quality Engineering Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Metrology Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Calibration Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Inspector	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Process Control Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
SPC Coordinator	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Technician Manager	\$41,600-\$49,920+	AAS Degree, Multiple Specialties
Quality Engineer	\$45,760-\$58,240+	BA/BS Degree

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