



## Associate in Applied Science Quality Management Systems

Thank you for your interest in the Associate in Applied Science Quality Management Systems degree.

The Quality Management Systems program prepares students to analyze and implement systems for continuous improvement of functions and processes for the manufacturing, government, and service sectors. Students are taught to analyze and solve quality problems, prepare inspection plans and instructions, and select sampling plan applications. Emphasis is placed on learning the tools and techniques for controlling processes, improving process reliability, improving efficiencies, and eliminating defects. Upon completion of the program, graduates are qualified for employment in entry-level managerial or supervisory positions. Course work uses and reflects the body of knowledge found in professional quality certifications such as offered by the American Society for Quality.

The Associate in Applied Sciences: Quality Management Systems degree is currently offered by Elizabethtown Community and Technical College and is the “Home College” for the degree. Even though classes may be delivered by different KCTCS colleges, only the “Home College” will admit you and take care of all of your student service needs including advising, library services, billing, financial aid, and, most importantly, awarding the degree.

Embedded within the degree are five (5) certificates which cover various aspects of the Quality Profession. You may find these certificates at [www.kctcs.edu/distancelearning/CertificatePrograms.htm](http://www.kctcs.edu/distancelearning/CertificatePrograms.htm).

You may request KCTCS classes online at [www.kyvuu.org](http://www.kyvuu.org) or you may register directly at any KCTCS college. Your request for classes through KYVU will go to the college you designate as Home College and the Registrar at the Home College will enroll you for classes once all admission requirements have been met. The entire degree may be completed online; however, some faculty may require onsite lab visits. Additional information about KCTCS admission requirements and college contacts may be accessed at [www.kctcs.edu/distancelearning](http://www.kctcs.edu/distancelearning)

This degree requires the successful completion of ten general education classes or 30 general education credit hours, six classes in the technical core, or 18 technical credit hours, and five technical elective courses or 15 credit hours in technical electives. Below is listed a program guide for you to follow if you wish to earn an AAS in Quality Management Systems. You may want to print this and use as a “check-off” sheet as you complete courses.

<b>GENERAL EDUCATION COMPONENT</b>		
<b>Course Number &amp; Name</b>		<b>Credit Hours</b>
ENG 101	Writing I	3
ENG 102	Writing II	3
ENG 203	Business Writing <b>OR</b>	3
ENG 204	Technical Writing	(3)
COM 181	Basic Public Speaking	3
MT 150	College Algebra	
CIS 100	Introduction to Computing	3
	Social Interaction Course	3
	Heritage/Humanities Course	3
	Science Course	3
	Elective	3
<b>Subtotal</b>		<b>30</b>

<b>TECHNICAL CORE</b>		
<b>Course Number &amp; Name</b>		<b>Credit Hours</b>
QMS 101	Introduction to Quality Systems	3
QMS 201	Customer Service Improvement Skills	3
QMS 202	Performance Management	3
QMS 220	Quality Audits	3
QMS 240	Statistics for Quality I	3
QMS 242	Statistics for Quality II	3
<b>Subtotal</b>		<b>18</b>

<b>TECHNICAL COURSES (15 Credit Hours)</b>		
<b>Course Number &amp; Name</b>		<b>Credit Hours</b>
QMS 151	Metrology and Inspection	3
QMS 210	Lean Processes	3
QMS 212	Project Management	3
QMS 251	Strategic Quality Planning	3
QMS 262	Design of Experiments	4
QMS 299	Selected Topics in QMS	1-6
BRS 101	Blue Print Reading and Geometric Tolerancing	4
COE 199	Cooperative Education	1-4
CAD 100	Introduction to Computer-Aided Design	3
CAD 150	Introduction to Programming: CAD	3
CAD 200	Intermediate Computer-Aided Design	3
CAD 201	Advanced Computer-Aided Design	3

ENV 144	Foundations of Environmental Ecology	4
ENV 145	Air, Soil and Water Sampling Lab	2
ENV 146	Environmental Methods and Analysis Lab	2
ENV 201	Chemistry and Biology of Water	3
ENV 202	Environmental Water Laboratory	2
ENV 203	Fundamentals of Solid Waste	3
ENV 245	Sources and Effects of Air Pollution	4
ENV 246	Environmental law	2
ET 110	Electrical Circuits I	4
ET 111	Electrical Circuits II	4
ET 115	Manufacturing I, Shop and Tools	3
ET 200	Survey of Computer Graphics	3
ET 261	Instrumentation and Measurements	3
HAS 241	Health and Medical Care Delivery Systems	3
HAS 260	Introduction to Health Administration	3
IS 100	Introduction to Industrial Safety	3
IS 200	Occupational Safety, Health & Fire Standards	4
IS 201	Occupational Health & Industrial Hygiene Methods	4
ME 105	Basic Engineering Graphics	2
ME 151	Manufacturing Engineering	3
MFG 145	Manufacturing Materials and Methods	3
MFG 256	Production Management	3
MFG 265	Robotics Fundamentals	3
PIM 150	Master Scheduling	3
PIM 200	Material Requirements Planning & Inventory Mgt.	3
PIM 210	Just-In-Time (JIT)	3
	Other Technical Courses Approved by Program Coordinator	1-6
<b>Technical Electives Subtotal:</b>		<b>15-17</b>
<b>Program Total:</b>		<b>63-65</b>

If you have any questions about the degree or the requirements, please contact the Program Coordinator or a Counselor at Elizabethtown Community and Technical College: <http://www.elizabethtown.kctcs.edu/progoff/academic/qualmgmt/qualmgmt.htm>

Other Helpful links:

<http://www.kctcs.edu/distancelearning/Courses.htm>

<http://www.kctcs.edu/distancelearning/collegeContacts.htm>

<http://www.kctcs.edu/distancelearning/bookstore.htm>