



Quality Assurance

Career Goal (O*NET Code): Process Control Technician (51-9061), Quality Control Technician (51-9061), Calibration Technician (17-3023).

Cluster Overview: Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

High School	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	Curricular Experiences: SkillsUSA TSA Career Learning Experiences: Career Preparation (Paid/Unpaid) Job Shadowing Internship Apprenticeship	Extracurricular Experiences: Odyssey of the Mind Destination ImagiNation Botball Educational Robotics Program National Robotics Challenge Service Learning Experiences: Boy Scouts of America Girl Scouts of the USA Community Service Volunteer
		Career-Related Electives:	Technology Systems (Modular Lab Based)** or Engineering Principles or Robotics I or Electricity/Electronics Technology			
	10th	Core Courses:	English II Geometry Principles of Technology I	World History Languages other than English II Technology Applications		
		Career-Related Electives:	Engineering Graphics or Robotics II or Manufacturing Technology			
	11th	Core Courses:	English III Mathematic Models with Applications Physics	United States History Communication Applications PE or Equivalent		
		Career-Related Electives:	Bio-related Technology Systems or Energy, Power, and Transportation Systems or Manufacturing Systems			
	12th	Core Courses:	English IV Algebra II Engineering	Government/Economics Fine Arts		
		Career-Related Electives:	Research Design and Development or Problems and Solutions in Technology			
Postsecondary	On-the-Job Training	Machinist Assistant	Drafting Assistant	Shop Helper	Professional Associations: American Iron and Steel Institute American Society for Quality American Society for Testing and Materials Minerals, Metals and Materials Society National Tooling and Machining Association Precision Metalforming Association Society for Maintenance and Reliability Professionals Society of Quality Assurance Society of Plastics Engineers	
	Certificates	OSHA CareerSafe *NOTE: These experiences may be completed as part of the high school experience. *Students may earn all or part of these certificates as part of the high school experience.				
	Associate's Degree	15 hours Core Curriculum Cluster Foundation Industrial Math (TECM 1X01) OR Technical Algebra and Trigonometry (TECM 1X43) Quality Control (QCTC 1X03) Productions and Operations Management (BMGT 1X31) OR Principles of Management (BMGT 1X03) Teaming (QCTC 1X05) OR Human Relations (HRPO 1X11) Integrated Software Applications I (ITSC 1X09) OR Business Computer Applications (BCIS 1X05) OR Computer Applications I (POFI 1X01) OR Introduction to Computer Technology (CPMT 1X03) Introduction to Environmental Safety and Health (EPCT 1X07) OR Construction Site Safety and Health (OSHT 1X07) OR Material Handling (OSHT 1X16) POS Specific Courses Blueprint Reading and Sketching (DFTG 1X25) Quality Assurance (QCTC 1X43) Shop Practices (AERM 1X03) OR Bench Work Layout (MCHN 1X32) Leadership (BMGT 2X09) Total Quality Management (QCTC 1X01) Management of Change (BMGT 2X11) Testing and Inspection Systems (QCTC 1X46) Statistical Process Control (QCTC 1X41)				
Bachelor's Degree	Industry and Technology	Technology Management	Engineering Technology	Career Options: Quality Assurance Manager Industrial Technologist Quality Coordinator		
Graduate Degree	Management of Technology	Engineering Technology	Industrial Safety Inspector	Career Options: Quality Assurance Manager Quality Coordinator Consultant		

* May substitute for the required credit for Physical Education
 ** Satisfies the required credit for Technology Applications
 *** May substitute for the required credit for Health Education

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2007. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.