

<h1>Energy</h1>	<b>Pathway: Production/Process Technology</b>
	<b>Plan of Study: Process Systems Technology</b>

**Career Goal (O\*Net Code):** Insert Career Options and O\*Net Codes Here

Suggested High School Courses				
<b>High School</b> <small>* Default includes CDHE Higher Education Admission Requirements</small>	<b>9<sup>th</sup></b>	<b>Core Academic Courses*:</b>	Composition/Lit 9, Algebra 1, Geophysical Science, World Geography, Physical Education (.5)	
		<b>Career Path Courses:</b>	Computer Applications (.5)	
	<b>10<sup>th</sup></b>	<b>Core Academic Courses*:</b>	Composition/Lit 10, Geometry in Construction, Biology, US History, Physical Education (.5), 3D Design (.5)	
		<b>Career Path Courses:</b>	Computer Communications (.5)	
	<b>11<sup>th</sup></b>	<b>Core Academic Courses*:</b>	Business Communications (.5) and Eng 11 Technical Communications (.5) WCCC*** or Composition 11 (.5) , Algebra 2 , American Government, Science in Process Tech***,	
		<b>Career Path Courses:</b>	Math PTEC 1 (.5) WCCC or home high school*** Process Systems Tech (WCCC)***	
	<b>12<sup>th</sup></b>	<b>Core Academic Courses*:</b>	Eng 12 Technical Communications (.5) WCCC*** and Newspaper (.5) or Speech (.5) , *Math PTEC 2 (.5)WCCC*** or Statistics and Math PTEC 1 (.5)	
		<b>Career Path Courses:</b>	*Process Systems Tech (WCCC)***	
	<b>Secondary to Postsecondary Linkages &amp; Certifications</b>			

<b>Recognition for Advanced Learning</b>	<b>Postsecondary Credit Options:</b> PRO 100 Introduction to Process Tech (dual enrollment with Process Systems Tech*** or Science in Process Tech*** or 3 combined courses of Robotics, Power & Energy and Production***) PRO 101 Safety, Health and Environment (dual enrollment w Process Systems Tech***) MATH 108 Math PTEC (dual enrollment w Math PTEC 1 and 2***) TECI 110 Applied Physics (dual enrollment with Physics***)
	<b>Industry Recognized Certificate(s) or License(s):</b> Process Technician - Chemical Incumbents exam

		Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
<b>Postsecondary Education Opportunities</b>	<b>Certificate</b>	Process Equipment Process Instrumentation Process Safety Process Technology Operations Process Technology Quality Management	Red Rocks Community College Colorado Mountain College Western Colorado Community College	Accuplacer plus High School Diploma or GED
	<b>Associate Degree</b>	Associate of Applied Science Process Systems Technology	Red Rocks Community College Colorado Mountain College Western Colorado Community College	Accuplacer plus High School Diploma or GED
	<b>Bachelor Degree</b>	Bachelor of Applied Science Bachelor of Science in Technical Management	Mesa State College DeVry University	Associate of Applied Science degree
	<b>Graduate Degree</b>	NA	NA	NA

**Cluster Overview:** The **Energy Career Cluster** prepares students in planning, management, production and transportation of renewable and fossil based energy.

Extended Learning Experiences		
<b>Curricular Experiences:</b> Skills USA	<b>Extracurricular Experiences:</b> Robotics Competition	
<b>Work-Based Learning Experiences:</b> Industry visits through STEP School to Career Internships (.5 to 2 credits available through counseling) Job shadows	<b>Program Accreditation and/or Professional Association(s):</b> Rockies Alliance for Process Tech (RAPT) Center for the Alliance of Process Tech (CAPT)	
<b>Service Learning Experiences:</b>		
Career Options:		Salary Range:
Certificate	Production Occupations (Mesa)	\$12.46
	Installation, Maintenance, and Repair Occupations (Mesa)	\$16.05
	Computer Support Specialists (Mesa)	\$20.14
Associate Degree	Industrial Production Manager (Mesa)	\$26.05
	Production and Operations Workers (Mesa)	\$21.07
	Electrical and Electronic Engineering Technicians (Mesa)	\$24.06
	First Line Supervisors Mechanics, Installers and Repairers (Mesa)	\$22.54
	Environmental Science and Protection Technicians	\$17.43
	Chemical Technicians	\$18.51
Bachelor Degree	Petroleum Engineers (Mesa)	\$29.24
	Mechanical Engineers	\$32.49
	Computer Software Engineers	\$39.48
	Chemists	\$27.83
	Environmental Compliance Inspectors	\$23.73
Graduate Degree	<b>Insert Career Options</b>	<b>Insert Salary Range*</b>

\* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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