

Degree: Associate of Applied Science

Process Technology – Energy Operations

Certificates:

- Introduction to Process Equipment
- Introduction to Process Plant Instrumentation
- Introduction to Process Plant Safety
- Introduction to Process Plant Operations
- Introduction to Process Plant Quality Management

AAS Degree

Process Technology – Energy Operations

The Process Technology – Energy Operations Program will prepare students for entry level employment as industrial operations technicians and operators. A process operator/technician is a key member of a team of people responsible for planning, analyzing, and controlling the production of electrical energy, oil and gas energy resources, alternate energy production and food and beverage and consumer products.

This program will provide the student with an understanding of process equipment and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important, shift oriented position.

The industries interested in the graduates from the program include, but are not limited to energy source production, oil and gas exploration and production, mining and mineral processing, petroleum product manufacturing, pharmaceutical production, food and beverage, electric power generation, drinking water treatment and wastewater treatment.

Information: 303.914.6063, chuck.beck@rrcc.edu
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| Required Courses | Credits |
|---|---------|
| PRO 100 Introduction to Process Technology | 4 |
| PRO 110 Safety, Health and Environment | 3 |
| PRO 120 Process Technology: Equipment I | 4 |
| PRO 125 Process Technology: Equipment II | 4 |
| PRO 130 Process Instrumentation I | 3 |
| PRO 131 Process Instrumentation II | 3 |
| PRO 210 Process Technology II: Systems | 4 |
| PRO 220 Process Technology III: Operations | 4 |
| PRO 230 Quality in Process Technology | 3 |
| PRO 240 Process Trouble Shooting | 4 |
| PRO 280 Internship or seek advisor approval for elective course(s) in HVA, WQM, IMA | 3 |
| Required General Education Courses: | |
| CIS 118 Introduction to PC Applications | 3 |
| BUS 118 Business Survival Skills | 3 |
| ENG 121 English Composition I | 3 |
| MAT 108 Technical Mathematics | 4 |

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| CHE 101 Introduction to Chemistry w/lab | 5 |
| PHY 105 Conceptual Physics | 4 |
| SOC 101 Introduction to Sociology or PSY 101 General Psychology I | 3 |
| Total Credits | 64 |

Certificates:

Students completing this program possess the skills and knowledge for entry level positions within the industry in the specific area of interest.

Certificate

Introduction to Process Equipment

| Required Courses | Credits |
|--|-----------|
| PRO 100 Introduction to Process Technology | 4 |
| PRO 110 Safety, Health, and Environment | 3 |
| PRO 120 Process Technology: Equipment I | 4 |
| PRO 125 Process Technology: Equipment II | 4 |
| Total Credits | 15 |

Certificate

Introduction to Process Plant Instrumentation

| Required Courses | Credits |
|---|----------|
| PRO 110 Safety, Health, and Environment | 3 |
| PRO 130 Process Instrumentation I | 3 |
| PRO 131 Process Instrumentation II | 3 |
| Total Credits | 9 |

Certificate

Introduction to Process Plant Safety

| Required Courses | Credits |
|--|----------|
| PRO 100 Introduction to Process Technology | 4 |
| PRO 110 Safety, Health, and Environment | 3 |
| Total Credits | 7 |

Certificate

Introduction to Process Plant Operations

| Required Courses | Credits |
|--|-----------|
| PRO 110 Safety, Health, and Environment | 3 |
| PRO 120 Process Technology I: Equipment | 4 |
| PRO 210 Process Technology II: Systems | 4 |
| PRO 220 Process Technology III: Operations | 4 |
| Total Credits | 15 |

Certificate

Introduction to Process Plant Quality Management

| Required Courses | Credits |
|---|----------------|
| PRO 110 Safety, Health, and Environment | 3 |
| PRO 230 Quality in Process Technology | 3 |
| CIS 118 Introduction to PC Applications | 3 |
| BUS 118 Business Survival Skills | 3 |
| Total Credits | 12 |