Workforce Development – Customized Employer Driven Solutions

Rocky Mountain Education Center
Red Rocks Community College

Workforce Development

Customized

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Specifications

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INPUTS

- Identify Job Skills – (descriptions, KSAs)
- Establish Basic Skills Competency Levels
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- Convene Interview Panels
- Simultaneous Classroom and Workplace Training
  - In-Training Internships
  - Job shadow
- Basic Training (Boot Camp)

OUTPUTS

Scholarship Pool

- Employer invests training funds for each graduate hire.
- Funds are re-used for next crop of students.

Worker Training Curriculum Development
Oil and Gas Exploration and Production Industry
Steering Committee

Jeff Brown, Whiting
Eric Esswein, NIOSH
Kurt Papenfus, CDC
Mary Jasek, TEEX
Dan Welschmeyer, Ensign Energy
Adam Kickish, Calfrac Well Services
Megan Meagher, OSHA VIII
Joan Smith, Red Rocks/RMEC
Jason Weatherford, Calfrac Well Services
Chuck Beck, Red Rocks/RMEC
Mark Nave, Blac Frac Tanks
Brice Stegner, MBI Well Servic
Jane Pennell, QEP Energy
Nancy Hauter, OSHA VIII
Rick Ingram, BP
J.D. Dani, WY OSHA
Greg Hardy, Shell
Paul Breaux, IADC
Barry Horseman, PEC
Lane Miller, WS Safety
Dale Robinson, HR Safety
Calfrac Supervisors: Chris, Brian

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OSHA 5810

http://rmecosha.com/5810.aspx

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Hazards Recognition and Standards Training Course for the US On-Shore Oil and Gas Exploration and Production Industry

30 Hour Course

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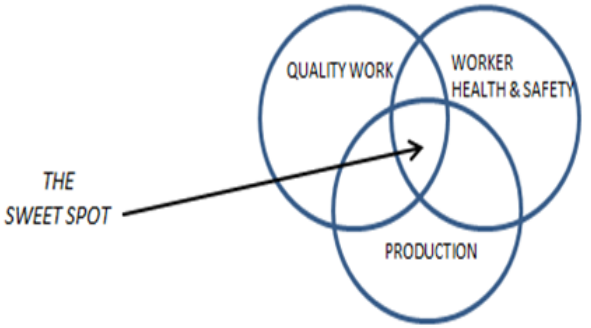
Field Leadership in Oil and Gas E&P –

Practicing the Effective Application of Communication Tools to Achieve Production and Safety Goals

The Industry Steering Committee responsible for the development of the OSHA 5810 has developed a new course specific to the needs of our supervisors and managers in the oil patch.



Workshop Goal

Participants will engage in active scenario based learning as they practice adapting their leadership style to increase effectiveness of his or her communication strategies. Participants will practice proven techniques in communicating, motivating and inspiring a diverse workforce to achieve the desired balance of worker health and safety, quality work, and production outcomes in the upstream oil and gas industry.

Ready to Work Academy

Energy Efficiency

$1400 Ready to Work Academy

$1200 Scholarship

$ 200 registration fee refunded upon successful completion of course.

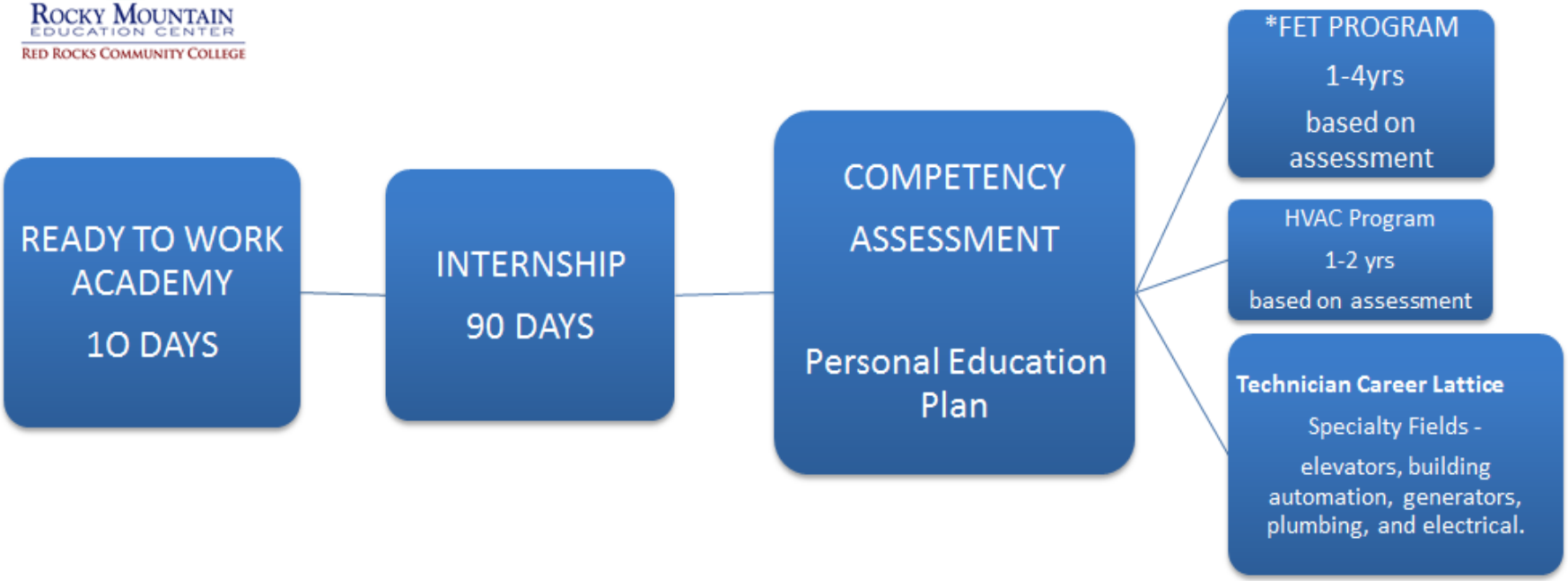
Final Student Cost $0!!!

Select images below to view the RRCC/RMEC HVAC lab in full size

The Ready to Work Academy is an 80 clock hour intensive training course aimed at providing students with the knowledge and skills needed to pursue a career as an **Infrastructure Technician.**

The Ready to Work Academy

Hands on Path to a College Degree



The Ready to Work Academy is a 10 day "Boot Camp" that will introduce the knowledge and skills to pursue a career as an HVAC Tech/ Facility Engineering Tech.

Students will earn two federally recognized credentials to include the OSHA 10-Hour General Industry Safety and Health, and the EPA Section 608 card. Students successfully completing the Academy and the 90 day internship will have a personal education plan that guides their continued training through the ***Facilities Engineering Technician Program (FET)**.

Students completing the **FET** Program are eligible to sit for the competency exams to earn the **American National Standards Institute Certificate Accreditation Program (ANSI-CAP) – Facilities Engineering Journey Technician.****

Ready To Work Academy
10 Day Job Prep (Boot Camp) Facilities Engineering Technician

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Day 1- Topic: OSHA General Industry Safety and Health 10-Hour card - Part One
Day 2 - Topic: OSHA General Industry Safety and Health 10-Hour card - Part Two
Day 3 -Topic: Principles of Refrigeration & Gas Laws
Day 4 - Topic: EPA Section 608 Certification Training
Day 5 - Topic: Service practices for handling refrigerants and refrigerant reclamation Training for Section 608 Certification

Day Six - Topic: Review questions for Section 608 Certification - 608 Certification TEST
Day Seven - Topic: Use and Care of Hand Tools, Basic Principles of Rigging and Basic principles of Maintenance
Day Eight - Topic: Basic principles of Electricity and Demonstration of the Basic principles of Electricity
Day Nine - Topic: Communication, Listening and Time Management
Day Ten - Topic: Role Playing to develop Communication and Listening skills

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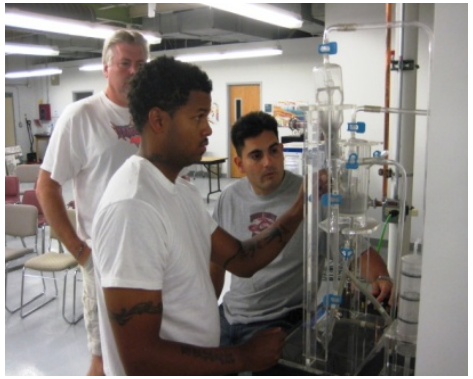
INDUSTRIAL MAINTENANCE TECHNOLOGY

- Mechanical Specialty
- Electrical Specialty
- Instrumentation and Controls

Workforce Development
Process Operators NEW HIRE TRAINING



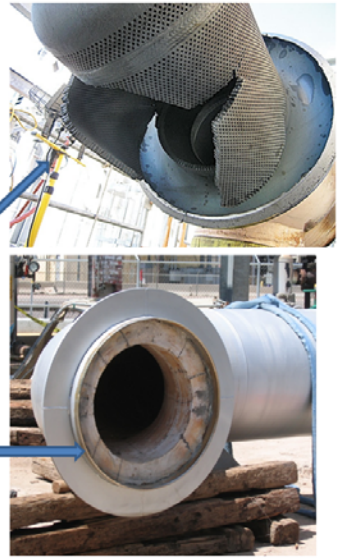
Class Topic	ClassTime	Class Duration, Hrs			
Physics	0700 -1015	4.5			
Chemistry	1200 – 330P	3.5			
Heat Exchangers	1200 – 330P	3.5			
Pipe and Valves	230 – 330P	1.5			
Fired Equipment	1200 – 330P	3.5			
Tanks and Vessels	0700-1015A	4.5			
Electrical Equipment	0700A – 1130A	4.5			
Prime Movers	1200P – 330P	3.5			
Compressors	0700A 1130A	8			
Pumps w Demo	0700A – 330P	8			
Equipment Care	0700A 1130A	4.5			
Instrumentation	1200P – 330P	3.5			
Process Control	1200P – 330P	4.5			
DCS Fundamentals	0700A - 1130A	4.5			
Distilllation	0700 – 330P	8			
Reactors	0700 – 1030A	3.5			
Troubleshooting	0700A 1130A	4.5			
Problem solving	1200 – 330P	3.5			
Steam Traps		4.5			

Basic Process Physics

Physics the science that describes the way **Matter** behaves in response to natural phenomena such as energy, force and motion.

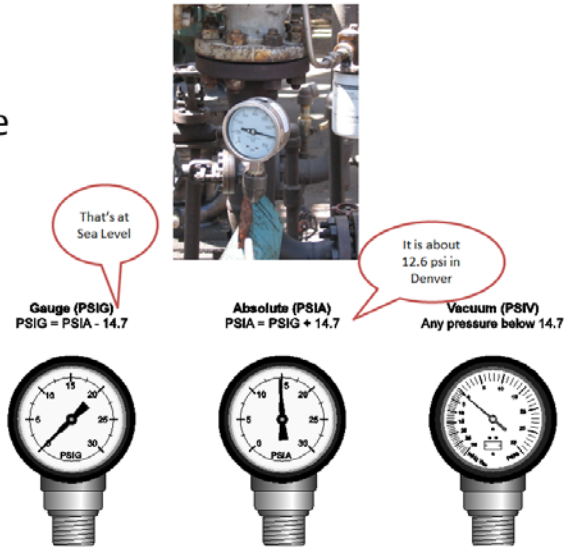
Solids and Physics

- Density
- Elasticity and Strength
  - Pressure vessels and piping
  - Steel framework
- THERMAL CONDUCTIVITY
  - ability to conduct heat energy from hot (high energy) to cold (lower energy)
  - Metals vs insulation
- Thermal Expansion and Thermal Shock
  - Vessels, piping systems
- Corrosion and erosion resistance



Pressure Measurement

- Gauge
- Absolute
- Vacuum



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