

Compressor Valves

Basic compressor valve operation; how to use valves for optimization; includes repair and troubleshooting.

June 5, 8am-3pm

ENER 133

Disposal Wells

Basic design and operation of typical produced water disposal well and equipment. Instruction provides students with standard terminology to promote effective communication regarding the injection well, operating and maintenance of the surface equipment in addition to storage tank issues and potential malfunctions.

June 12, 8am-3pm

ENER 141

Introduction to Gas Measurement

Basic principles of the design and operation of gas measurement. Standard terminology to promote effective communication regarding maintenance issues and potential malfunctions. Skills, techniques, and procedures to properly perform routine gas measurement and correctly document data to meet government regulations and company requirements. Additional topics: natural gas composition; types of meters; auxiliary equipment; sampling; inspection of measurement equipment; gas sales contracts & unaccounted-for (ghost) gas.

June 19, 8am-3pm

ENER 119

Introduction to Compression

Basic principles of compression, and compressor skid design and operation for production operations; includes standard terminology to promote effective communication regarding maintenance issues and potential malfunctions of skid components.

Covers design and function for basic troubleshooting.

June 26, 8am-3pm

ENER 122

Basic Engine Theory

Internal combustion engines: combustion characteristics, lean burn and rich burn engines, 3 major components required for combustion, etc.

July 10, 8am-3pm

ENER 132

Emissions Detection, Analysis, and Control

Chemical components of emissions; combustion control and emissions; emissions laws and standards; demonstrations and use of emissions analyzer.

July 17, 8am-3pm

ENER 135

Why We Use Compression

Brief overview of where and how compressors were introduced to produce natural gas. Covers compressor use to accelerate the movement of gas while providing increased pipeline and reduced gathering-system pressures from the wellhead, through a treatment plant, to the "end user." Basics of identifying external components of, and operating, a wellhead compressor skid. Includes discovering downtime reasons and safely returning the compressor skid to full operations. *(ENER 122 pre)*

July 24, 8am-3pm

ENER 214

**For more info please call the San Juan College
School of Energy - 800 S. Hutton, (505) 327-5705,
go to sanjuancollege.edu/appschedule**

Introduction to Separator and Tank

Basic principles of separator and tank design for production operations. Includes standard terminology for effective communication regarding: principles of separation, separator components, preventive maintenance, and operational efficiencies; types of tanks, regulatory compliance, maintenance issues, and reasons for tank failure.

July 31, 8am-3pm
ENER 113

Using A Multimeter

Use of the multimeter, a measuring tool/device, in all its capabilities—Ohms, capacitance, resistance, voltage AC/DC, etc. (use Fluke 87 multi-meter, or students can bring their own).

August 7, 8am-3pm
ENER 134

Introduction to Gas Lift

Basic principles of the design and operation of gas lift. Standard terminology to promote effective communication regarding maintenance issues and potential malfunctions. By correctly indentifying gas lift design and function, students will be able to understand how to operate and perform basic troubleshooting for gas lift wells.

August 14, 8am-3pm
ENER 118

Introduction to Dehydration

Basic principles of dehydration, dehydrator skid design, and operation for production operations. Includes standard terminology to promote effective communication regarding maintenance issues and potential malfunctions of skid components. Covers basic troubleshooting.

August 21, 8am-3pm
ENER 120

Introduction to Oil and Gas

Basics of oil and gas industry, focusing on production. Includes basic oil and gas field concepts; unique terminology of the oil industry; and the process of extracting oil and gas from thousands of feet underground, and delivering it through surface equipment for transfer to the wholesaler.

August 28, 8am-3pm
ENER 130

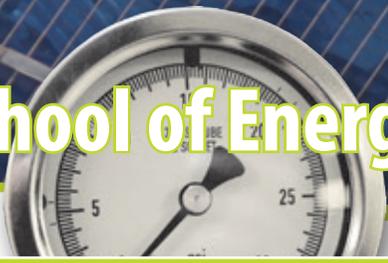
Theory of Line Locating

Basic theory of line locating including buried utility line and well location flow lines. Lecture and equipment training; students must be able to walk long distances, including steep inclines.

June 6, 8am-4pm
LSOP 230
OR June 20, 8am-4pm
LSOP 230
OR July 18, 8am-4pm
LSOP 230
OR August 1, 8am-4pm
LSOP 230
OR August 15, 8am-4pm

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School of Energy



PROGRAMS OF STUDY

Advanced Petroleum Production Operations

Associate of Applied Science or Certificate

This program is designed to enhance the knowledge and skills of employees currently employed in the oil and gas industry. Students must have a minimum of two years of industry experience and be currently employed in the oil and gas industry to obtain the degree.

Commercial Drivers License

Certificates

These programs provide the training and skills for individuals to pass the three-part class-A CDL exam. Students receive instruction on such topics as tanker, doubles/triples and Hazmat endorsements as well as hours of service, weight and balance, and vehicle out of service regulations.

Industrial Maintenance Mechanic

Associate of Applied Science

The program prepares students for entry-level positions as maintenance mechanics of power generation, mining, natural gas, refinery, water treatment, semiconductor, petrochemical, and pharmaceutical processes.

Industrial Process Operator

Associate of Applied Science

The program is designed to prepare students for entry-level positions as operators for power generation, natural gas and refinery processes.

Fundamentals of Petroleum Prod. Oper.

Associate of Applied Science or Certificate

The programs are designed to provide technically oriented entry-level employees with the basic knowledge and skills of production processes and equipment operation required to efficiently and safely monitor, troubleshoot, and operate wells in their area of responsibility. Lease operators are the initial contact of the industry, responsible for the safe, efficient, and economical production of their assigned wells. The Lease Operator's skills and abilities have a direct impact on production levels and profits. **Student must apply to be accepted.**

Natural Gas Compression Technology

Associate of Applied Science or Certificate

This program is designed to provide technically oriented entry-level employees with the basic knowledge and skills of gas compression equipment maintenance required to efficiently and safely maintain, troubleshoot, and operate compression packages in their area of responsibility. **Student must apply to be accepted.**

Occupational Safety - Online

Associate of Applied Science and Certificate

This program provides entry-level training and skills for individuals seeking an occupational safety career and prepares them to become competent safety professionals. Students will learn using an online format which will allow them to accomplish their goal in obtaining the certificate or degree and structuring their education to fit into their lives. Students will receive instruction on such safety topics as management of safety work, fire prevention and protection, fleet safety, hazard communication and right-to-know, industrial hygiene, etc. The program is designed to give students a well rounded curriculum that will allow them to enter into any area of the safety profession.

Well Control Technology

Certificates

The program curriculum includes two computer simulators to safely teach the fundamentals of well control without the hazards of field work. Students will earn their IADC certification upon successful completion of the course.



More info:
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