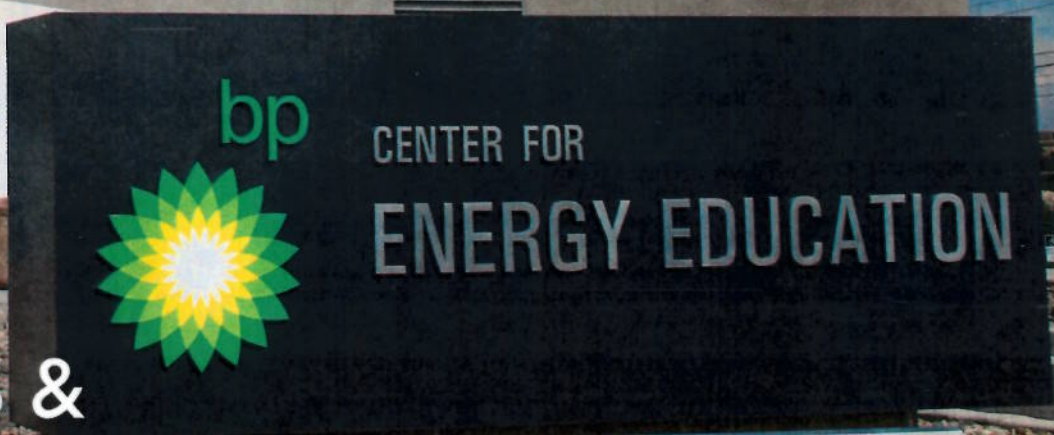


SAN JUAN COLLEGE SCHOOL OF ENERGY

SCHOOL OF ENERGY
99100 - 99300



DEGREES &
CERTIFICATES

Success Matters

photo by Jonny Bennett

JOBS IN THE INDUSTRY

A story in the June 4, 2014, issue of Investor's Business Daily highlights the increasing demand for a trained workforce that is needed in the energy industry.

The story states that a May, 2014 study by Manpower, an employment agency that has offices in 80 countries and territories, according to its web site, found that 58 percent of energy employers said they have difficulty finding trained employees and 74 percent of them believe the situation will not improve, but get worse, in the next five years. The story also states that jobs in the oil and gas sector are expected to almost double by the year 2020.

In addition, community colleges, such as San Juan College and the School of Energy, are providing better training for those interested in careers in the energy industry. While the opportunities for everyone are great, the industry is especially interested in attracting women and minorities for those jobs.

Jobs in the energy industry are available to those who have the education and certification needed to enter the field and make a comfortable living for themselves and their families. The School of Energy's partners with many business's in the industry such as BP America, ConocoPhillips, Encana, XTO, APS, PNM, Williams, Twin Stars and Chevron who look for new employees that have the necessary training and certifications to become professionals in the field and in their companies.

The School of Energy invites you to visit its staff and instructors, who will help you begin your journey to an exciting and rewarding career in the energy industry. The opportunities are many, the need is great and the financial gains are exceptional. It is our goal and mission to guide you along your path and provide you with the training, education and support you need to succeed.

For information, please call the San Juan College School of Energy at 505-566-4100. It is a phone call that can change your life – for the better!

San Juan College School of Energy has been an important resource to Chevron for finding new employees in today's economy. Students who graduate from the School of Energy are "boots on the ground" ready to do their jobs safely and efficiently at Chevron's many locations. Since 2012 Chevron has hired more than 30 students from San Juan College School of Energy and donated more than \$40,000 towards educational programs and scholarships. The graduating students, as well as the school's growth, are a testament to our strong partnership and collaboration.



— **Bruce Niemeyer**
Vice President, Chevron Mid-Continent Business Unit

INDUSTRIAL MAINTENANCE MECHANIC

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

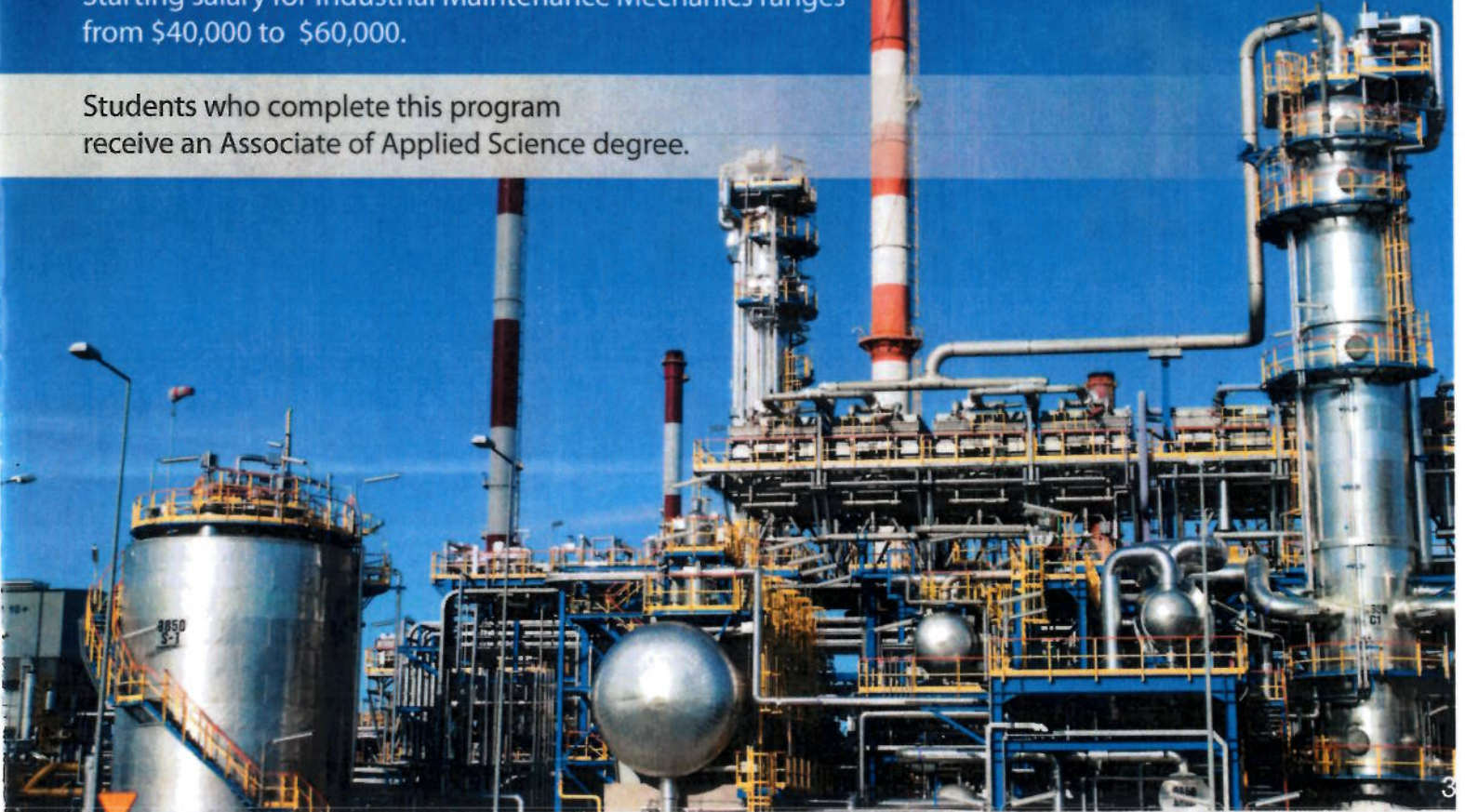
More than \$1.7 million worth of process and maintenance equipment gives students a hands-on experience in:

- Pump rebuilding
- Pump alignment
- Fabrication
- Hydraulics
- Vibration Analysis
- Rigging
- Lubrication
- Mechanical seals
- Precision measurement tools
- Piping systems
- Welding

This program focuses on basic industry-related courses: Introduction to process technology, environmental health and safety, process operations, lubrication, basic electrical and instrumentation, and process equipment. The second year will focus on centrifugal and positive displacement pump rebuilding, laser alignment, rigging, hydraulics, pipe fitting, bearings, seals, hand tools, mechanical drives, vibration analysis, and quality assurance.

Starting salary for Industrial Maintenance Mechanics ranges from \$40,000 to \$60,000.

Students who complete this program receive an Associate of Applied Science degree.



INDUSTRIAL PROCESS OPERATOR

The Industrial Process Operator program prepares students for entry-level positions as operators of power generation, mining, water treatment, natural gas, refinery, semiconductor, petrochemical and pharmaceutical processes. Process operators are employed by plants that produce electricity, commodity gases (natural gas, propane, butane), gasoline, diesel fuel, industrial chemicals, plastics, ultra-pure water, pharmaceuticals and other products.

Students train on functional processes, receiving hands-on experience with multiple working plants typical of San Juan Basin process plants. Safety practices, procedures and regulatory compliance, as well as industrial hygiene and environmental stewardship, are integrated throughout the program. Instructors with years of industry experience teach applied knowledge and process theory and prepare graduates for entry-level operator positions. The first year of this program is offered online.

Starting salary for Industrial Process Operators ranges from \$40,000 to \$50,000.

(Source — Bureau of Labor Statistics)



Students who complete this program receive an Associate of Applied Science degree.



photo courtesy of PNM

INSTRUMENTATION AND CONTROLS TECHNOLOGY

The Instrumentation and Controls Technology Program at San Juan College provides students with a hands-on work environment that covers electronic instruments, electrical systems, pneumatic systems and computer-based process controls. Students learn to install, maintain and troubleshoot automatically controlled processes. Coursework is divided evenly between electronics, instrumentation and industrial electricity.

In most plants such as refineries, power generation, mining and manufacturing, processes are controlled intelligently, using state-of-the-art automation controls. Instrumentation and Control Technicians are in demand to work in a variety of jobs ranging from Automation Technicians in the oilfield and refineries to Instrument Control Electrician at the local power plants. In the future, that demand is expected to increase with more industries relocating to the Four Corners area.

The Applied Science Degree is a two-year program. Instrumentation and Controls Technology is a premier program in the Southwest region, serving industry apprenticeships and internships in addition to regular college students.

A survey of local industries shows a continuing need for instrument technicians with median pay levels in this area averaging \$50K annually and up.

(Source — Bureau of Labor Statistics)



Students who complete this program receive an Associate of Applied Science degree.



NATURAL GAS COMPRESSION

This program provides students with the basic knowledge and skills of gas compression equipment and maintenance. Students will learn how to efficiently and safely maintain, troubleshoot and operate compression packages when they become entry-level employees. A compression technician's skills and abilities directly impact gas production levels and profits.

Natural gas technicians operate and maintain a variety of natural gas-fired engines and compressors. They work on engines ranging from 100 horsepower to more than 6,000 horsepower. Natural gas compression is used to transport natural gas from the wellhead to processing plants, and then to deliver natural gas to homes around the country. Natural gas technicians are also needed for offshore drilling rigs. The opportunities in the natural gas field are unlimited. The first year of this program is offered online.

On average, starting salary for Natural Gas Compression technicians is \$42,000.

(Source — Bureau of Labor Statistics)



Students who complete this program receive an Associate of Applied Science degree.



PRODUCTION OPERATIONS

The Production Operations program provides technically oriented students with knowledge and skills of oil and gas production processes and equipment operation required to monitor, troubleshoot and operate wells safely and efficiently.

Production operators are the industry's front line of responsibility for the safe and efficient production of their assigned wells. A production operator's skills and abilities have a direct impact on production levels and profits.

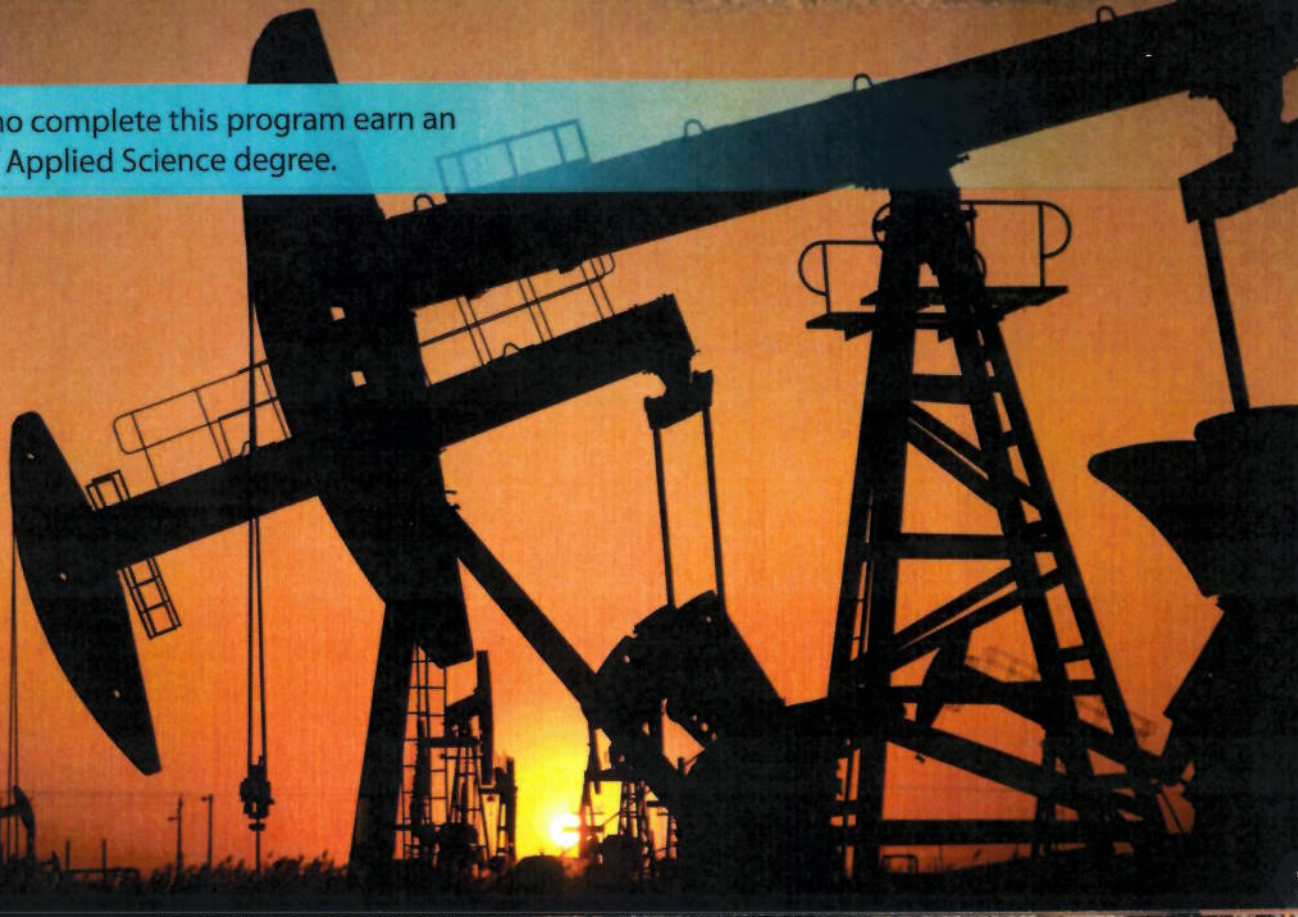
Production operators may encounter wellhead compression, separators, dehydrators, storage tanks, measurement equipment, pumping units, and chemical injection equipment in the field. Because production operators are responsible for getting the natural resources out of a well and delivered into a sales pipeline, this position is essential for the success of oil and gas companies. The first year of this program is online.

Starting salary for Production Operators is approximately \$50,342.

(Source — Bureau of Labor Statistics)



Students who complete this program earn an Associate of Applied Science degree.



ADVANCED PETROLEUM PRODUCTION OPERATIONS

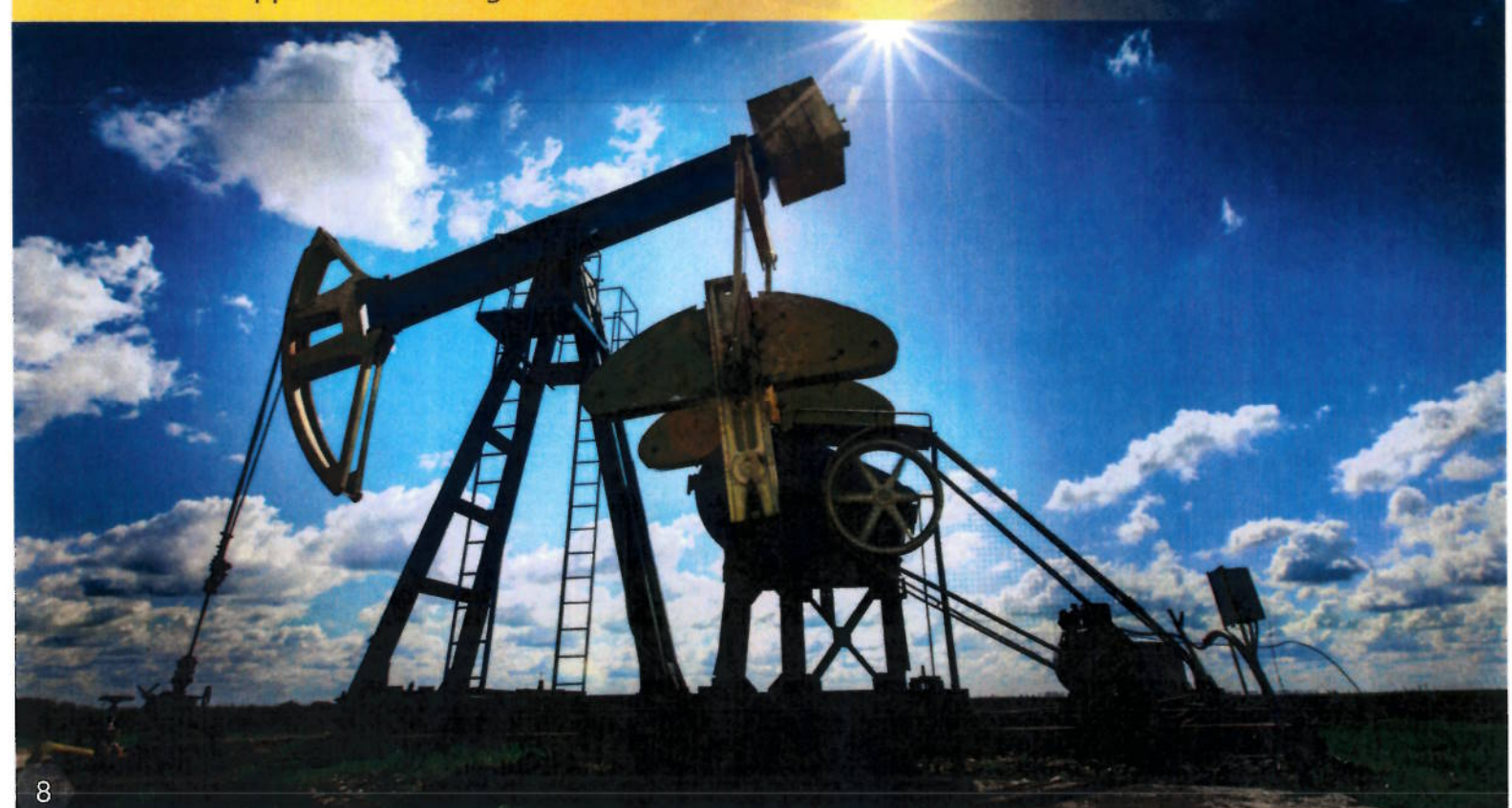
The Advanced Petroleum Production Operations of Applied Science Degree Program (AAS) is designed to enhance the knowledge and skills of those currently employed in the oil and gas industry. Students must have a minimum of two years of industry experience and be currently employed in the oil and gas industry to obtain the degree. Students must get approval to be in this program from the Petroleum Production Coordinator.

The first year of this program (General Education and Energy Core Curriculum) is entirely online. The technical requirements are a combination of face to face and online. One day ENER classes are also a part of this program and may be attended weekly.

On average starting salary for Advanced Petroleum Production Operations is \$55,000.



Students who complete this program earn an Associate of Applied Science degree.



OCCUPATIONAL SAFETY ONLINE

The online Occupational Safety program (Associate of Applied Science degree and Certificate) provides students a thorough education in the growing field of safety and prepares them for entry level safety positions in a variety of industries. This program curriculum includes; hazard assessment in the workplace; applying regulatory requirements and industry best practices; safety training; cost analysis and budgeting; and general safety management.

Upon completion of the SAFE core curriculum (18 credit hours), the student will earn an Occupational Safety certificate. These core sources provide entry-level training and skills. Certificate completion indicates basic safety knowledge and prepares students to become competent safety professionals.

This unique program allows qualified safety professionals who already hold a Texas Engineering Extension Service (TEEX) Certified Safety & Health Official (CSHO)™ certificate to earn a college degree while continuing to work full time. Students can receive 18 hours of college credit with a verification of completion of a TEEX CSHO™ Certificate.

On average, starting salary for Occupational Safety technicians is \$54,000.

(Source — Bureau of Labor Statistics)

Students without TEEX CSHO are also eligible to enroll in the AAS Occupational Safety program. In place of the CSHO, they will complete an additional 18 credit hours of Core Classes.



CORE CURRICULUM

Associate of Applied Science Degree (AAS)

The foundations of our degrees/certificates consists of 15-16 credit hours of General Education academic requirements and 15 credit hours of Energy core curriculum. It is designed to provide technically oriented entry-level students/employees with basic knowledge of the energy industry and an introduction into the production and processes of the energy industry.

The General Education and Energy Core Curriculum (30-31 credit hours) listed below meets the academic requirements for the first year of the following Associate of Applied Science degree programs: Production Operations, Natural Gas Compression, Industrial Process Operator Program and Industrial Maintenance Mechanic. Instrumentation and Controls Technology and Occupational Safety - Energy Core Curriculum have unique academic and technical requirements.

A student must earn a grade of "C" or higher in all courses to obtain a certificate or AAS degree. The General Education courses may be taken online or through conventional classes. The Energy Core Courses are offered online.

Attention: Students who wish to be employed in the Energy field must have a clean driving record and may be required to take a drug test or submit to a background check.

| First and Second Semesters (Online) | |
|--|---|
| General Education Requirements - 15 or 16 credits | Energy Core Curriculum - 15 credits |
| Communications 6 credits ENGL 111 or ENGL 118 AND ENGL 211 or 218 OR COMM 110, 111, 120 | ENGY 110 - 3 credits Introduction to Process Technology |
| Mathematics 3 or 4 credits MATH 113, 115, 130, 160 or higher | ENGY 130 - 3 credits Safety, Health Environment and Ethics |
| Applied Technology 3 credits COSC 125 or 137 | ENGY 133 - 3 credits Process Technology I - Equipment |
| Humanities Social Behavioral Sciences 3 credits | ENGY 125 - 3 credits Introduction to Oil & Gas Industry |
| | ENGY 126 - 3 credits Introduction to Natural Gas Compression Production and Process |

Third and Fourth Semesters - 32 weeks (*On Campus*)

Production Operations

This program is designed to provide technically oriented students with knowledge and skills of production processes and equipment operations. Students will be able to perform basic tasks in the field including effectively operating a primary separator, monitoring wellhead pressures and troubleshooting most types of surface equipment in their area of responsibility.

Natural Gas Compression Technology

This program is designed to provide technically oriented students with the basic knowledge and skills of gas compression equipment and maintenance required to efficiently and safely maintain, troubleshoot and operate compression packages in their area of responsibility.

Industrial Maintenance Mechanic

This program is designed to prepare students for positions as maintenance mechanics, maintenance technicians and operations technicians of power generation, mining, natural gas, refinery, and semi-conductor, photochemical and pharmaceutical processes.

Industrial Process Operator

This program is designed to prepare students for positions as operators of power generation, natural gas, refinery, petrochemical or pharmaceutical processes. Process operators are employed by plants that produce products such as electricity, commodity gases, gasoline, diesel fuel, industrial chemicals, plastics, pharmaceuticals, etc.

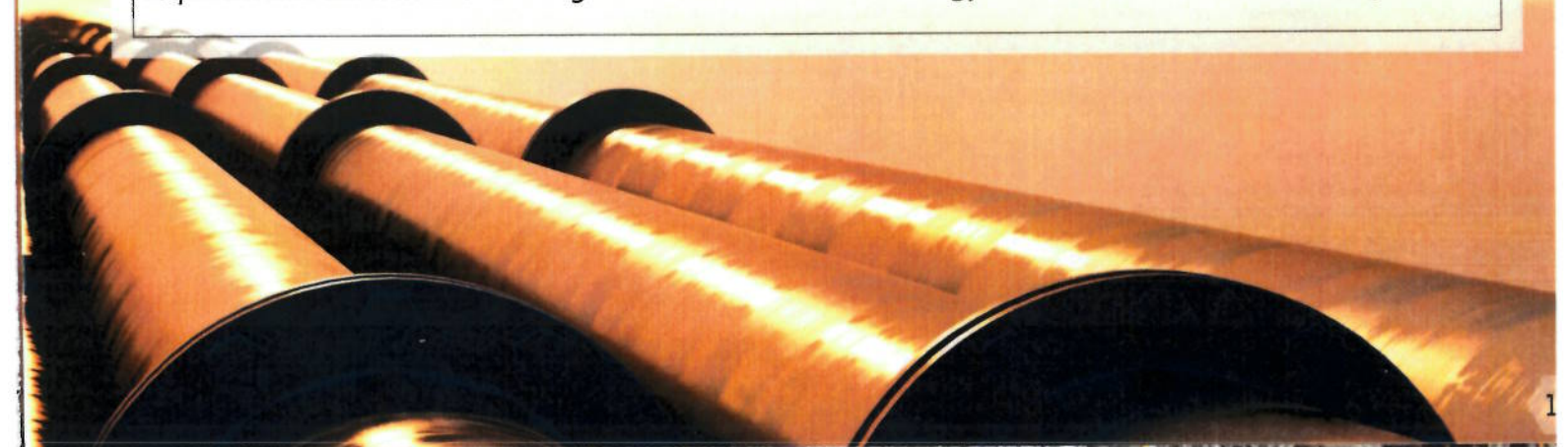
Instrumentation and Controls

This program is designed to provide technically oriented entry-level students with hands-on work environment that covers electronic instruments, electrical systems, pneumatic systems and computer-based process controls.

Occupational Safety (on-line)

This on-line program provides students a thorough education in the growing field of safety and prepares them for entry level safety positions in a variety of industries. Program curriculum includes, hazard assessment, regulatory requirements, industry best practices, safety training, cost analysis and budgeting and general safety management.

NOTE: Energy Core Curriculum applies to the elective portion of this degree. The General Education requirements differ in this AAS degree. Contact School of Energy Advisor for details of this degree.



OUR PARTNERS IN EDUCATION

TEXAS A&M ENGINEERING



EXTENSION SERVICE

Customer Care email: itsi@teex.tamu.edu

Education Agreement information is:

<https://teex.org/Pages/about-us/earn-college-credit.aspx>

Point of Contact: Bill Stansbury | 800.723.3811



NEW MEXICO
HIGHLANDS
UNIVERSITY™

FARMINGTON

OIL & GAS MANAGEMENT DEGREE

Email: farmington@nmhu.edu

Education Agreement information is:

<http://www.sanjuancollege.edu/pages/6551.asp>

Phone: 505-566-3552

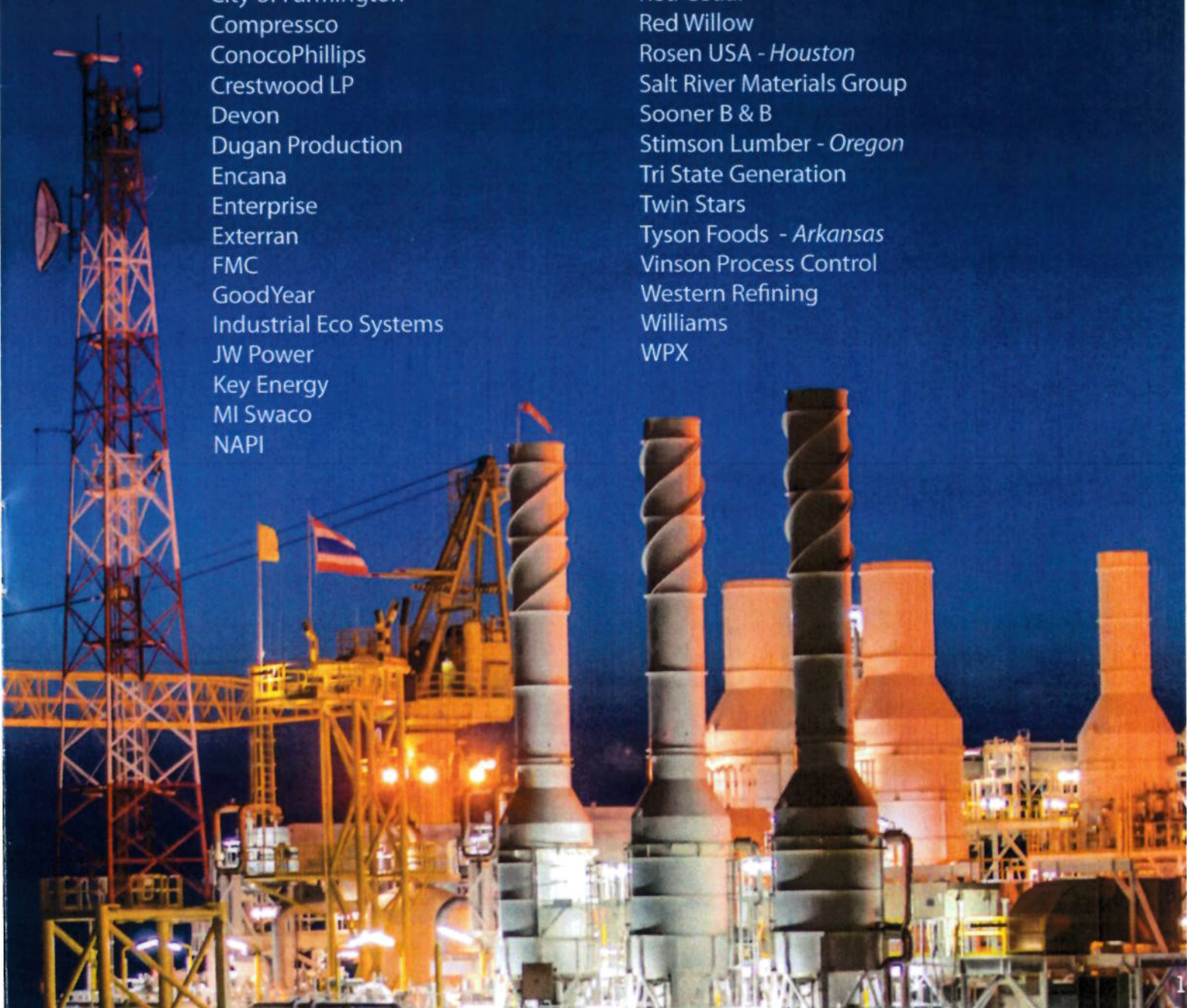


OUR PARTNERS IN ENERGY

The following is a partial list of companies that have hired program graduates from the San Juan College School of Energy:

A Plus Well Service
Anadarko
APS
Aztec Well
Basic Energy
BHP Billiton
BHP Underground Mine
BP
Chevron
City of Farmington
Compressco
ConocoPhillips
Crestwood LP
Devon
Dugan Production
Encana
Enterprise
Exterran
FMC
Goodyear
Industrial Eco Systems
JW Power
Key Energy
MI Swaco
NAPI

Navajo Generating Station - *Salt River*
Project
North Island
OXY
PAC
PESCO
PNM
Print Pak - *Illinois*
Production Testing Services - *Houston*
Red Cedar
Red Willow
Rosen USA - *Houston*
Salt River Materials Group
Sooner B & B
Stimson Lumber - *Oregon*
Tri State Generation
Twin Stars
Tyson Foods - *Arkansas*
Vinson Process Control
Western Refining
Williams
WPX



Test

"I graduated from Texas A&M University-Commerce in May, 2014, with a four-year Bachelor's of Applied Science degree as a result of the TEEX and San Juan College School of Energy programs. I want to thank San Juan College and the School of Energy for the opportunity that was afforded me in obtaining my goal of a college degree. I have been accepted into the MS Technology Management program at TAMU-Commerce and look forward to continuing my education. If I can give back to San Juan College and the School of Energy in any way, I would be grateful in helping where I can. I want to see that the program is as successful as it can be."

— Thomas from Orange, TX

"The online program at San Juan College allowed me to be able to complete a degree in my field (Occupational Safety) while still working full time and supporting my family. The program worked for me because I was able to complete all of the requirements on my time or while traveling. Although obtaining a degree solely online requires large amounts of dedication and self-motivation, it allowed me to set a foundation for my children to believe that anything is possible as long as you put your mind to it."

— Zach from Katy, TX

"The Industrial Process Operator program was excellent. The instructors took me under their wings and because of their years of personal industrial experience, I gained important insight that continues to be useful. The hands-on training gave me the confidence and understanding I needed to succeed. Now I have a great job as a control board operator for PNM."

— Joel from Farmington, NM

imonials

"I graduated in May, 2014, with an Associate's Degree in Applied Science with the Industrial Process Operator as my focus. I would like to express my gratitude and deepest thanks for allowing me to pursue my degree."

— Darin from Farmington, NM

"I graduated in May, 2014, with double majors from the School of Energy with Industrial Process Operator and Industrial Maintenance Mechanic degrees. Now that I have ended this educational and rewarding journey at San Juan College and the School of Energy, I will take the knowledge and skills I have into the workforce in the oil and gas industry."

— Ryley from Farmington, NM

"I graduated from San Juan College School of Energy in May, 2014, with my AAS degree in Natural Gas Compression and Certificates. I have achieved one of my important goals in life."

— Melvin from Bloomfield, NM

"Wife, two kids, two dogs, two houses and a full time job. That is what my life is and the Occupational Safety program at the San Juan College School of Energy allows me to go to college full time. The only reason I can do this is because of the flexibility that the program offers. The staff at the Occupational Safety program is top notch and has worked with me from day one."

— Jimmy from Farmington, NM

Success Matters



School of Energy — Wellsite Simulator



SAN JUAN COLLEGE
School of Energy

5301 College Blvd • Farmington, NM 87402 | sanjuancollege.edu/energy | (505) 566-4100 • Toll free 866-426-1233

San Juan College does not discriminate on the basis of race, color, religion, sex, national origin, disability, age, genetics or veterans' status, or on the basis of any other category protected under federal or state law, in regard to admissions, employment, programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policy of San Juan College: Director of Human Resources and Title IX Coordinator, 505-566-3215.