The Center for Petrochemical, Energy, and Technology (CPET) is a groundbreaking facility boasting the following features:

- Largest petrochemical training facility in the Gulf Coast Region
- 8,000 square-foot glycol distillation unit to teach process operations and develop troubleshooting skills for students and incumbent workers
- The right combination of the newest industry technology and legacy equipment to ensure that students get a well-rounded education
- Instrumentation/analyzer technology and nondestructive testing training labs
- Multifunctional glass pilot plant lab for training process systems
- Conference, training, and assembly spaces designed to accommodate academic, community, and industrial functions
- Electrical technology labs for teaching industrial electrical equipment function and maintenance
- State-of-the-art control room to operate the glycol distillation unit developed with industry to optimize safety, efficiency, and ergonomic human factors
- Process simulation lab that creates a real-life representation of chemical, physical, and other technical processes in unit operations
- Corporate training and professional development facilities designed to complement many aspects of the petrochemical manufacturing industry, such as process technology, instrumentation and controls, electrical power, fixed and rotating equipment technology, process reliability, nondestructive testing, and others
The Center was developed with feedback from an advisory council of industry representatives and plant managers. They provided expertise on areas like equipment and curriculum.

- Austin Industrial Inc.
- Dianal America
- Dow Chemical Company
- East Harris County Manufacturers Association (EHCMA)
- Economic Alliance Houston Port Region
- Emerson
- INEOS Olefins & Polymers USA
- Infinity – Wood Group
- ISC Constructors LLC
- Kaneka Americas Holding Inc.
- Kuraray
- Lubrizol
- LyondellBasell
- R. Boeding Group LLC
- S&B Engineers and Constructors
- Shell Oil Products Co.
- Acuren Inspection Inc.
- Austin Industrial Inc.
- Covestro
- Dow Chemical Company
- Eaton
- INEOS Olefins & Polymers USA
- Infinity – Wood Group
- ISC Constructors LLC
- Kuraray
- LyondellBasell
- R. Boeding Group LLC
- Pro-Surve Technical Services LLC
- Shell Oil Products Co.

San Jacinto College offers a variety of noncredit courses for workforce training and continued learning to help enhance your job skills and advance your career.

Our basic or advanced process troubleshooting courses are designed for beginning or current process operators/technicians. These courses offer training covering topics from introduction to process instrumentation and troubleshooting to performing emergency shut-down operations using prescribed procedures and many more.

**INDUSTRY PARTNERSHIPS**

**Small Image**

The Center was developed with feedback from an advisory council of industry representatives and plant managers. They provided expertise on areas like equipment and curriculum.

- Austin Industrial Inc.
- Dianal America
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- INEOS Olefins & Polymers USA
- Infinity – Wood Group
- ISC Constructors LLC
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- Kuraray
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- ISC Constructors LLC
- Kuraray
- LyondellBasell
- R. Boeding Group LLC
- Pro-Surve Technical Services LLC
- Shell Oil Products Co.

**STEEING COMMITTEE AND SUB TEAM**

These partner companies are leading the designs of specific facilities and labs in the Center.

- Acuren Inspection Inc.
- Austin Industrial Inc.
- Covestro
- Dow Chemical Company
- Eaton
- INEOS Olefins & Polymers USA
- Infinity – Wood Group
- ISC Constructors LLC
- Kuraray
- LyondellBasell
- R. Boeding Group LLC
- Pro-Surve Technical Services LLC
- Shell Oil Products Co.
- Turner Industries
- Zachry Engineering Co.

**SUCCESS STARTS WITH THE RIGHT PARTNER**

**TAKING ADVANTAGE OF SAN JACINTO COLLEGE INCUMBENT TRAINING MEANS:**

- Convenient, flexible, and affordable classes to help you gain the skills and certifications or re-certifications you need to excel on your terms.
- Authorized training programs designed in partnership with companies to address specific needs to keep workers competitive within their industries.
- Open enrollment for individuals looking to change career paths.
- Fast-track curriculum options that give you the necessary credentials to obtain a job in your desired field.
- Affordable program offerings to advance your career in a cost-effective way.

*Industry Partnerships as of 7/31/2019.*
**ELECTRICAL TECHNOLOGY**

Have you considered a hands-on skill that is very much in demand throughout the Houston region? San Jacinto College’s electrical technology program is the answer. Homeowners, builders, and businesses rely on skilled electricians for repairs and new installations. A career as a journeyman or master electrician puts you in demand. Our programs help you master everything from simple residential wiring to complex commercial and industrial power and controls for the area’s petrochemical plants and business infrastructure.

**THE SAN JACINTO COLLEGE ELECTRICAL TECHNOLOGY PROGRAM:**

- Uses a curriculum that prepares you to fill entry-level positions in residential, commercial, and industrial electrical fields.
- Prepares students for jobs in maintenance, design, marketing, estimating, and other electrical-related industries.
- Offers daytime and evening courses that enable apprentices to start accumulating the required on-the-job experience.
- Prepares students for journeyman and master electrical exams.

**DEGREES/CERTIFICATES**

- Associate of Applied Science (A.A.S.)
- Certificate of Technology
- Occupational Certificate
- Enhanced Skills Certificate

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**ENVIRONMENTAL HEALTH AND SAFETY TECHNOLOGY**

Environmental health and safety technology is a specialized branch of the health profession that focuses on the environment of workers. Professionals in this field strive to find and eliminate conditions in the workplace that may result in injury or disease. This is achieved through a process of anticipation, recognition, evaluation, and control of the various stresses that contribute to unsafe working environments.

**The San Jacinto College environmental health and safety technology program:**

- Is multi-disciplinary in nature, providing students with relevant exposure to biological, chemical, physical, mathematical, and health sciences, as well as a thorough introduction to occupational health and safety concepts.
- Trains students to recognize common safety concerns involved with confined space entry, hazardous energy control, hazard communication, compliance with safety standards, environmental protection, and other areas.
- Prepares students to perform the following functions: identify and analyze accident and loss-producing conditions; develop accident prevention and loss control methods, procedures, and programs; communicate accidents and loss control data to individuals on a need-to-know basis; and measure and evaluate the effectiveness of accident and loss control systems.

Our curriculum is modeled from guidelines of the American Board of Industrial Hygiene (ABIH) and the Board of Certified Safety Professionals (BCSP). The ABIH and BCSP began a jointly-sponsored certification program through The Council on Certification of Health, Environmental, and Safety Technologist (CCHEST). CCHEST will administer the testing. Students who pass the certification examination and pay the required fees are authorized to use the title Environmental Health and Safety Technologist, and to use the initials OHST after their names. Students may further their studies at an upper-level university leading toward Certified Safety Professional and/or Certified Industrial Hygienist.

**DEGREES/CERTIFICATES**

- Associate of Applied Science (A.A.S.)
- Certificate of Technology
INSTRUMENTATION TECHNOLOGY

As machines continue to evolve in digital sophistication, intricate connections, and complex control systems, instrument technicians have become indispensable to keeping the wheels of industry turning. Working in a comprehensive industrial computer control lab, students in the San Jacinto College instrumentation technology program learn how to install, maintain, and troubleshoot intelligent integrated control systems, developing skills highly sought after in chemical plants, refineries, pipeline companies, power plants, water treatment facilities, all types of manufacturing plants, and more.

The San Jacinto College Instrumentation Technology Program:
- Covers three categories: control systems installation, maintenance, and troubleshooting.
- Teaches basic electrical theory and controls so students can successfully perform entry-level instrument and electrical (IE) technician duties.
- Trains students to become technicians responsible for installing, calibrating, and troubleshooting individual process instruments, as well as complete control systems.
- Ensures that control systems technologists be able to navigate among various intelligent devices and implement sophisticated control strategies.

DEGREES/CERTIFICATES
- Associate of Applied Science (A.A.S.)
- Level 2 Certificate
- Enhanced Skills Certificate

NONDESTRUCTIVE TECHNOLOGY

Nondestructive testing (NDT) and inspection is a fast growing, diverse, high-paying industry. We do more than train you for a job, we prepare you for a career!

Our program offers students the training needed to enter the inspection and quality industry and the hours required for certification, with training that conforms to ASNT - American Society of Nondestructive Testing SNT-TC-1A Level II.

Courses in the program include nondestructive testing methods, piping, pressure vessel and weld inspection, metrology, metallurgy, and standards.

TESTING METHODS
- Ultrasonics
- Phased Array
- Eddy Current
- Liquid Penetrant
- Magnetic Particle
- Visual
- AWS CWI
- API 510 & 570
- Radiographic Film Interpretation
- Metallurgical
- Metrology

DEGREES/CERTIFICATES
- Associate of Applied Science (A.A.S.) or Level 2 Certificate:
  - Nondestructive Testing Technology
  - Fixed Equipment Inspection
- Certificate of Technology in Nondestructive Testing Technology
Graduates of the San Jacinto College process technology program enter the workforce with the necessary skills that are highly prized by companies that hire students directly from our program.

**The San Jacinto College Associate of Applied Science Degree in Process Technology:**

- Prepares students to become plant operators responsible for equipment, the hazards of the chemicals, and the chemistry and physics involved in process technology.
- Teaches students to read piping and instrumentation diagrams, identify equipment, troubleshoot equipment, operate simulators, and, as a capstone course, run the glycol distillation unit.
- Is praised by area industry for the quality of students graduating from the program.
- Process technology students are exposed to upstream, midstream, and downstream. Students are made aware that there are different avenues to pursue for a rewarding career.

**Degrees/Certificates**

- Associate of Applied Science (A.A.S.)
- Level 2 Certificate
- Enhanced Skills Certificate

**Career Opportunities**

- Chemical plants
- Oil refineries
- Oil exploration and production companies
- Pipelines
- Wastewater treatment plants
- Pharmaceutical plants
- Paper mills
- Terminals
- Fuel storage depots
- Electrical power plants
- Manufacturing plants
- Manufacturer field technician positions
- Instrumentation maintenance positions in large buildings or on campus-type facilities
- Instrumentation sales

Graduates of the programs offered at the Center for Petrochemical, Energy, and Technology have the opportunity to work in high-demand careers in a variety of different plants across the industry.
ABOUT SAN JACINTO COLLEGE

San Jacinto College has been serving the citizens of East Harris County, Texas, since 1961. The College is located in one of the nation’s greatest and most diverse cities. Houston is a focal point for art and culture, home to industries from entertainment to petrochemical, space exploration, and medicine.

LEARN MORE

Incumbent Training Courses
sanjac.edu/cpd
281-478-3698

Electrical Technology
sanjac.edu/program/electrical-technology
281-478-2799

Environmental Health and Safety Technology
sanjac.edu/career/environmental-health-and-safety-technology
281-478-2712

Instrumentation Technology
sanjac.edu/program/instrumentation
281-478-2712

Nondestructive Technology
sanjac.edu/NDT
281-478-2799

Process Technology
sanjac.edu/program/process-technology
281-478-2712

www.sanjac.edu/cpet

The San Jacinto College District is committed to equal opportunity for all students, employees, and applicants without regard to race, creed, color, national origin, citizenship status, age, disability, pregnancy, religion, gender, sexual orientation, gender expression or identity, genetic information, marital status, or veteran status in accordance with applicable federal and state laws. The following College official has been designated to handle inquiries regarding the College’s non-discrimination policies: Vice Chancellor of Human Resources, 4624 Fairmont Pkwy., Pasadena, TX 77504; 281-991-2659; Sandra.Ramirez@sjcd.edu.