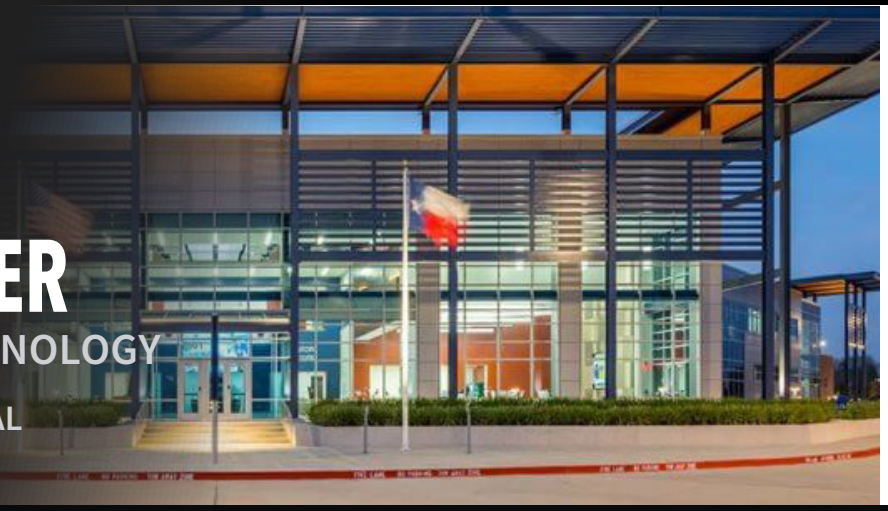
PROJECT SPOTLIGHT

PROJECT SNAPSHOT

ncs

SAN JACINTO COLLEGE
LYONDELLBASELL CENTER
FOR PETROCHEMICAL, ENERGY & TECHNOLOGY

STRUCTURED CABLING, SECURITY + AUDIOVISUAL
FOR A CONNECTED TRAINING FACILITY



CLIENT
San Jacinto College

LOCATION
Pasadena, TX

SPACE
151,000 sq. ft. facility

NCS SCOPE
Structured Cabling,
Security and Audiovisual

THE PROJECT STORY

HANDS-ON PROCESS TRAINING

EATON COMMONS

1,000+
CAT 6 NETWORK DROPS

33
CUSTOM LABS

20
INTERACTIVE CLASSROOMS

THE RESULT: A CONNECTED TRAINING ENVIRONMENT

NCS completed the infrastructure within schedule and budget parameters. The facility now supports advanced wireless throughput, intelligent building systems, enhanced security and complex audiovisual integration, creating a scalable foundation for teaching, operations and future campus standards.

THE CLIENT

San Jacinto College's LyondellBasell Center for Petrochemical, Energy & Technology is a 151,000 sq. ft. instructional complex designed to support Gulf Coast workforce development. The facility includes 33 custom labs, 20 interactive classrooms, a pilot plant lab and an 8,000 sq. ft. glycol distillation unit.

THE CHALLENGE

The specialized facility needed a unified technology foundation for group-based active learning across classrooms, laboratories and process-training areas. NCS had to support varying access and connectivity requirements across multiple facility zones while coordinating network, audiovisual and security infrastructure.

THE SOLUTION

NCS installed 1,000+ Panduit Cat 6 drops, four IDFs, one MDF, CommScope fiber backbones and supporting copper infrastructure. NCS also integrated AV throughout the labs, classrooms and Eaton Commons, deployed interior and exterior video surveillance with analytics, and added a Public Safety DAS when radio coverage gaps were identified during final inspection.

THREE SYSTEMS. ONE CONNECTED LEARNING ENVIRONMENT.

Structured cabling, security and audiovisual systems work together across CPET's classrooms, labs, common areas and process-training spaces to support instruction, collaboration and day-to-day operations.

STRUCTURED CABLING

1,000+ PANDUIT CAT 6 DROPS
Connectivity for workstations, wireless access points, AV displays and security cameras.

FOUR IDFS + ONE MDF
Distribution facilities organize network connectivity and support the 151,000 sq. ft. complex.

COMMSCOPE FIBER BACKBONES
Dedicated multimode and singlemode fiber with MaxCell fabric innerduct.

STANDARDS-BASED INSTALLATION
Structured cabling installed to applicable ANSI/TIA standards and BICSI best practices.

ONE INFRASTRUCTURE FOUNDATION

The cabling platform supports network connectivity, wireless access points, AV displays and security cameras throughout the facility, giving each system a consistent physical foundation.

SECURITY + AUDIOVISUAL ACROSS THE FACILITY

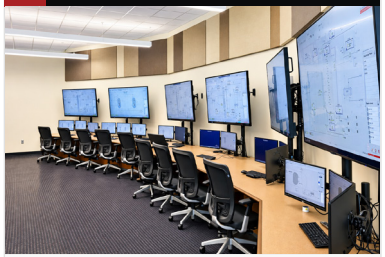
01 EATON COMMONS AV

16' x 9' Samsung 2.0mm LED wall, Renkus-Heinz audio, wireless microphones and Crestron control.

02 CLASSROOM + LAB AV

Projection systems across 33 labs and 20 classrooms with Da-Lite screens, NEC laser projectors and Kramer VIA Campus.

03 CONTROL + COLLABORATION



Crestron controls, camera soundbars and interactive displays support presentations and active learning.

04 VIDEO SURVEILLANCE

10 interior and 12 exterior IP/analog camera systems provide broad monitoring coverage across the facility.

05 SECURITY + ANALYTICS

Hanwha dome, multi-sensor and PTZ cameras support real-time monitoring and advanced video analytics.

06 AV SYSTEM INFRASTRUCTURE

Integrated audio, control and presentation equipment supports learning spaces, common areas and production needs.

PLANNING A NEW EDUCATION FACILITY OR TECHNOLOGY REFRESH?

Contact NCS to plan structured cabling, security and AV from day one.

281-484-1777 SALES@NCS-TX.COM WWW.NCS-TX.COM

TEXAS OFFICE LOCATIONS

- HOUSTON
- GALVESTON
- DFW
- CORPUS CHRISTI
- RIO GRANDE VALLEY