



Building System Fundamentals

Join us for our 30-hour training course to learn how to keep your HVAC systems running longer and more efficiently

With energy prices rising and equipment shortages, it is more important than ever to keep your building systems running smoothly. Are there ways to improve your building's energy efficiency, potentially decreasing operating costs? Are there preventative maintenance measures you could enact to extend the life of your equipment?

Efficiency Commissioning LLC is proud to partner with Custom Robotics to present our Building Systems Fundamentals training course. This 30-hour training course will primarily focus on HVAC systems, with an emphasis on energy and sustainability. This course includes two (2) site visits to the University of Texas-El Paso's central heating and cooling plants to see firsthand how the information you are learning can be translated into real-world scenarios. Graduates will earn 30 PDH.

At the end of our Building Systems Fundamentals course, you will be able to evaluate your facility and make suggestions for how to improve efficiency (and potentially decrease building operation cost).

Details

Dates: November 7-10, 2022

Time: 8am to 4pm (lunch provided)

Location: El Paso, TX (and virtual option)

Price (onsite): \$1,200

Early Bird Onsite Sign-up until Sept. 9: \$1,000

Price (virtual/remote): \$1,000

Early Bird Virtual Sign-up until Sept. 9: \$800

Register: visit efficiencycx.com/events to sign up!

Who should attend?

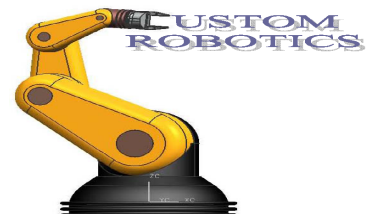
- Facility Directors/Managers
- Building Engineers
- HVAC Supervisors
- Building Controls Engineers/Technicians/Supervisors

Join us this fall to learn how to make the most out of your building!

Please email any questions to info@efficiencycx.com or call 651-706-5329



**EFFICIENCY
COMMISSIONING**



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Course Overview

Our Building Systems Fundamentals course is designed for professionals with a base knowledge of HVAC and are looking to learn more and optimize their system. The course topics will include:

- **HVAC Fundamentals**
 - exploring different systems (such as heating/cooling systems, terminal units, and ventilation and air quality systems) with their associated components
- **Benchmarking Your Facility**
 - analyzing your utility consumption patterns using billing and interval data
 - reviewing and analyzing utility consumption patterns to calculate your facility's Energy Use Intensity (EUI)
 - comparing your EUI to the EUI of similar facilities
 - identifying potential savings opportunities
- **Building Automation Systems and Controls Theory**
 - reading and understanding control sequences and systems diagrams (primarily HVAC, lighting controls, and fire alarm systems)
- **Sustainable Practices for Building Renovation and New Construction Projects**
 - exploring lifecycle cost analysis and energy efficiency guidelines/standards during construction projects
 - understanding the different project documents (OPR, BOD, specifications, etc.)
 - learning about how the commissioning process can lead to time and cost savings
 - reviewing building turnover, when the building is handed off from the construction team to the facilities team and the facilities team is trained
- **Field Trips**
 - UTEP chiller plant
 - UTEP boiler plant



**Register to join us at
efficiencycx.com/events today!**

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Speakers

A variety of industry experts will be presenting throughout this course, including the course creators: Javier Navar Payan and Dr. Louis Everett.



Javier Navar Payan

MSME, P.E.*, BCxP, CEM, BECxP, CxA+BE
(*Registered in Texas and Minnesota)
jnavar@efficiencycx.com | 651-706-5329

Javier is the CEO and Principal Engineer of Efficiency Commissioning LLC with more than 11 years of hands-on building system experience. He is an advocate for energy efficiency and is dedicated to making buildings work to their full potential. Javier is passionate about commissioning. He served as Team Leader in the development of ASHRAE's Building Commissioning Professional (BCxP) certification study guide and is currently on the ASHRAE BCxP Exam Subcommittee. Efficiency Commissioning LLC is an engineering consulting firm that specializes in building commissioning, recommissioning, and building optimization with a focus on energy efficiency and sustainability.



Dr. Louis J. Everett

PhD in Mechanical Engineering, P.E.*
(*Registered in Texas)

Dr. Everett holds degrees from the University of Texas El Paso (UTEP), Stanford and Texas A&M. A licensed professional engineer in Texas, Dr. Everett has consulting experience in automation, control, robotics, aviation and space flight. He currently is Associate Dean of Engineering at UTEP and teaches classes in programming, Dynamics, Control, Fluids and Thermodynamics. Dr. Everett received multiple awards for excellent teaching, proving him a dedicated instructor, bringing industry experiences into the classroom. Dr. Everett is a well-published researcher whose work is characterized by practical applications of theory.

Cancellation Policy

Please note that cancellations made by September 30 will receive a 100% refund. Any cancellations made between September 30 and October 28 will receive a 50% refund (due to venue and food reservations). Cancellations made after October 28 will not be refunded.

If for any reason you are unable to attend, you may transfer your reservation to another person by emailing info@efficiencycx.com. Please let us know as soon as possible if this is the case.