

# High Performance in Career and Technical Education

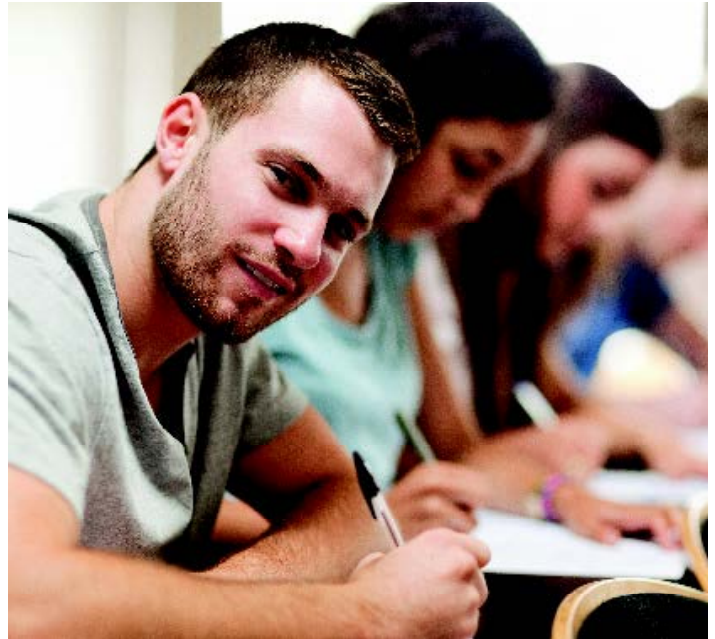


# Building a sustainable future

Creating safe, comfortable, productive and sustainable learning environments is critical for building high-performance institutions that attract the right students and support the community.

Trane, a heating, ventilation and air conditioning (HVAC) and energy solutions industry leader, delivers performance, innovation, commitment and knowledge, offering campuswide solutions that save energy—and money—while creating ideal conditions for learning.

As an industry leader, Trane is committed to supporting career and technical education by creating advanced learning facilities that strengthen workforce development and even turn entire campuses into living, learning classrooms—preparing students for a bright future. At Trane, we enhance the building's life and the lives within.



At a time when millions of skilled positions are going unfilled, strong collaboration among secondary and postsecondary institutions, business and industry partners, and educational advocacy organizations is critical in improving the quality of career and technical education programs.

That's why Trane is the national energy sponsor of the National Coalition of Certification Centers (NC3), a network of educational institutions, business partners and industry leaders that:

- Develops and implements industry-recognizable certifications
- Collaborates with progressive institutions to develop a stronger workforce
- Encourages collaboration between the public and private sector

As a sponsor and advisor of NC3, Trane provides industry expertise in energy-related areas, such as HVAC systems, climate- and energy-control technologies and renewable energy—including geothermal, solar and wind energy systems.

### **Creating an advanced learning environment**

State-of-the-art classroom and teaching lab facilities attract students and their parents, as well as local and national industry leaders who are more likely to partner with a college that can deliver a skilled workforce. Integrated technology training successfully engages and retains students who have a strong desire to learn.

Trane is collaborating with progressive schools and colleges, creating working classrooms with advanced HVAC, building-automation and energy-related technology to encourage hands-on instruction in an environment fit for any level of student or professional.

### **Optimizing building space**

Changing trends in both curriculum and classroom space often require the redistribution or renovation of campus facilities. To help support the changing needs of facility management, Trane professionals work together with key stakeholders on campus to plan and implement facility upgrades to ensure that indoor climate conditions support your campus strategy.

### **Increasing energy conservation**

Energy is one of the single largest line items in a typical campus operations and maintenance budget, costing millions of dollars every year. By applying sustainable design and construction practices, as well as implementing predictive service and maintenance programs, Trane has helped higher education institutions save 10 to 20 percent on energy costs annually for new buildings, and 15 to 30 percent for renovated buildings. So, whether you're looking for a way to stabilize tuition, or seeking an additional resource for core campus initiatives, reducing energy costs is a constructive place to start.

### **Maximizing savings and performance**

Wasted energy and operational inefficiency across a campus can be corrected and turned into cash. Using a paid-from-savings approach to fund facilities upgrades allows many colleges to implement campus improvements. Trane recommends and implements specific energy conservation measures and guarantees projected energy cost savings. If at any time during the contract the calculated energy cost savings produced by facilities upgrades are less than the guaranteed amount, Trane will pay the difference.



Trane-equipped HVAC lab, Gateway Technical College - Kenosha, Wisconsin; founding member of NC3

### **Engaging students**

An integrated approach to learning, the Trane BTU Crew curriculum compels students to use their campus as a living energy lab. Throughout the course, students:

- Perform a building energy audit, analyze the results and present findings and recommendations for improving energy efficiency
- Investigate their career interests and discover how they tie to energy
- Lead campaigns to conserve energy in campus buildings
- Strengthen presentation and interviewing skills



## Enhancing high-performance campuses

Colleges and technology centers are at the forefront of the sustainability movement. Trane has more than 700 LEED®-accredited professionals and vast experience designing energy-efficient solutions for the multi-building campus.

With our advanced analysis tools and HVAC systems knowledge, Trane is uniquely qualified to help colleges and universities finetune energy and indoor environmental strategies, and incorporate alternative energy sources.

According to the Environmental Protection Agency, high-performance schools are facilities that improve the learning environment while saving energy, resources and money. Trane has more than 50 years of experience helping colleges improve their facilities, implement green campuses and achieve better financial and operational performance. As the world leader in optimizing indoor environments, Trane offers:

- Energy-efficient, cost-effective, low-maintenance equipment
- Advanced building automation systems
- Quality heating, ventilation and air conditioning systems
- Expert building and contracting services



Scan the code to learn more.

## Case Study

At a time when its utility costs were increasing and its aging heating and cooling systems were failing, Edmonds Community College in Lynnwood, Wash., also lost 30 percent of its funding due to state budget cuts.

Working with Trane to identify and implement the right solution allowed the college—a signatory of the American College & University Presidents' Climate Commitment—to meet its sustainability objectives while saving over \$250,000 a year in energy costs, in addition to \$79,000 in annual operational savings from its server virtualization.



If your institution is planning to renovate existing space or build new facilities, Trane can help you during each step of the process—from design to implementation. For more information, contact your Trane representative or visit [Trane.com/HigherEd](https://www.trane.com/HigherEd)

Learn more at [trane.com](https://www.trane.com)



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