



Sustainable Facilities Management

Certificate Program

Bringing Green to the Built Environment

Why take this program?

Sustainability is becoming an increasingly important component of the building industry. As awareness of green practices and their utilization develop, so does demand for their implementation.

The Sustainable Facilities Management certificate program covers the basic elements of facility management along with related sustainability elements. From sustainable real estate development and construction to extending asset life, this program provides a comprehensive review of the essential skills required of today's facility managers.

Participants will be introduced to the importance of incorporating sustainability principles into every step of facility management. Specific focus is given to the Leadership in Energy and Environmental Design (LEED) certification process, green building concepts, green cleaning, commissioning, indoor air quality (IAQ), and reducing the carbon footprint of buildings.

How you'll benefit

The Sustainable Facilities Management certificate program will help you learn to reduce the embodied carbon within the design, construction and operation of facilities. It is not simply an overlay on legacy facilities management. Sustainable facilities management requires a new design and a new operational paradigm for facilities. Participants will develop the skills and techniques necessary to:

- Apply core sustainable principles to each step within the facilities management process

- Understand "green" definitions, standards and management tools
- Identify means to eliminate waste
- Incorporate the latest renewable energy and conservation concepts into facilities planning
- Design, operate and maintain facilities according to sustainable practices

Is this the right program for you?

The Sustainable Facilities Management certificate program is designed for senior executives, senior managers, business owners, facility managers, building engineers, contract managers, procurement officers, fleet managers, office managers and property managers. The program is also appropriate for private and public sector professionals interested in understanding sustainability principles.

Program structure

The Sustainable Facilities Management certificate program consists of seven courses totaling 141 hours of instruction or 14.1 continuing education units (CEUs). Participants may enroll in individual courses to increase their skills in areas of specific interest. Courses may be taken in any order.

How to reach us

For more information, visit www.cce.csus.edu or contact a program representative at cceinfo@csus.edu or at **916.278.4433**.

Courses

Introduction to Sustainable Facilities Management

This course is designed to introduce participants to sustainable facility management (SFM). Participants will learn why it is important to incorporate sustainability principles into every step of managing a facility. Key components of traditional facilities management, along with related sustainability issues, will be examined, including sustainable real estate development and management practices; the established practice of green building management and operation; green cleaning; and sustainable construction practices.

(2.1 CEUs)

Sustainable Real Estate and Lease Management

This course is designed to provide an overview of the core principles of real estate and lease management, and show how sustainability impacts these functions. Topics include sustainable master planning; land use and development; sustainable site acquisition and disposal; and corporate social responsibility.

(2.1 CEUs)

Standards and Framework for Operational Efficiencies

Focusing on Leadership in Energy and Environmental Design (LEED), participants learn all aspects of rating systems, their current applications and possible future direction. LEED is the most widely accepted third-party green building rating system in the United States. Due to its remarkable growth, continuous improvement and importance in construction and management of facilities, LEED is an imperative tool for the successful sustainable facility manager.

(1.5 CEUs)

Sustainable Planning, Designing and Constructing the Green Building

Defining a green building and providing a fundamental understanding of how the principles of sustainability are applied to facility project management is covered in this course. Participants learn to use the least amount of resources in construction, keep the construction site sustainable and commission a green building.

(2.1 CEUs)

Sustainable Building Maintenance and Repair

Providing a fundamental understanding of building maintenance and repair sets the stage for building operations. Starting with low to medium skilled crafts and working up to highly technical skilled crafts, such as digital controls, this class reviews all the crafts, skills and common methodologies used in each to maintain and repair building systems. This course covers areas that a facilities manager is responsible for, such as cleaning, cafeteria, landscaping, parking and grounds, and elaborates on the various systems used to keep track of all the work and the management system for each of these functions. Special emphasis will be given to predictive maintenance and its importance in the sustainable Triple Bottom Line concept. Students will be developing an understanding of all the intricacies and complexities of building maintenance and its importance to the overall sustainability of a building.

(2.1 CEUs)

Sustainable Building Operations and Energy Management

This course focuses on the energy management, commissioning, indoor air quality (IAQ) and financial issues within building operations. Participants learn about energy usage in buildings, how to design to use less energy and how to reduce a building's overall on-going carbon footprint.

(2.1 CEUs)

Sustainable Space Planning and Space Utilization

All aspects of lowering the carbon footprint of a facility by effectively planning and utilizing its physical space are covered in this class. Discussions incorporate basic space planning principles from furniture selection to space layout optimization. Starting with basic human factors that focus on effective ergonomics, this course balances worker productivity with sustainability.

(2.1 CEUs)

