



Advancing Data Center  
and IT Infrastructure  
Professionals



EDUCATIONAL PARTNER

# CE 6000: Critical Environments Engineer (CEE)



eLearning  
3 day instructor led  
Blended Learning

## Critical Environments Professional Development Program

Resilience.  
Education.  
Credentialing.



The International Consortium  
For Organizational Resilience

# Critical Environments Engineer (CEE)



**Audience:** Those responsible for the operation and maintenance of all electrical, mechanical, and HVAC equipment including vendor selection and contract negotiations.

The focus of CE 6000 is on aspects of engineering mission-critical environments. It begins with best practices in project management of mechanical and electrical engineering projects along with taking a deep look into managing system inter-relationships.

This course includes an in-depth study of system designs, understanding the outage window, and how to perform an evaluation of the engineering program. In addition to discussing the importance of understanding vendor requirements and contractual obligations, CE 6000 also provides options for creating a comprehensive training program, and identifying individual abilities to drive to level engineering practices.

## 8 Lessons / Competency Areas

### 6000.1 Managing CE Projects

1. Project management
2. Capital funding & end of life analysis
3. Quality controls
4. Self-auditing / assessment

### 6000.2 System Design Integrations and Concerns

1. Understanding infrastructure design concerns
2. Mechanical & electrical system engineering
3. Controls system and logic
4. Evaluating impacts / risks

### 6000.3 Outage Window Concerns

1. Understanding outage windows and frequencies
2. Methods for enforcing outage windows
3. Actions performed during an outage window
4. Missing outage windows

### 6000.4 Evaluating the CE

1. Addressing gaps in the engineering program
2. Aspects and resources for vetting
3. Tools for tracking
4. Scheduling

### 6000.5 Training Programs

1. Goals and objectives of training programs
2. Identifying gaps and evaluating effectiveness
3. Internal and external training programs
4. Measuring and reporting programs

### 6000.6 Vendor Requirements & Contractual Obligations

1. Understanding terminology
2. Evaluating vendor capabilities
3. Vetting vendors
4. Writing a scope of work

### 6000.7 Mechanical & Electrical Engineering

1. Understanding mechanical engineering in the CE
2. Understanding electrical engineering in the CE
3. Evaluating internal vs external solutions
4. Reporting requirements

### 6000.8 Engineering Practices

1. Common points for engineers
2. Understanding historical experiences
3. Articulating effective solutions
4. Case studies for learning

## Credentials

The Critical Environments Engineer (CEE) certification exam is included in CE 4000 elearning and instructor-led courses. The CEE certification exam can also be challenged online without taking a class.

Certificates of learning are issued upon completion of the exam for each competency area. Exams are a combination of multiple choice and practical-based problem solving.

# Engineering Mission-Critical Environments

## Aligning Mission-Critical Environments Education & Credentialing Programs to the Workplace

Recognized globally for its vendor-neutral, standards-based education programs, ICOR's certification competency areas align to specific jobs or job areas in the critical environment workplace.

**ICOR courses meet your learning style.** Take the full course or individual competency areas. Learn from an instructor or on your own via elearning or self-study course books. Interactive activity-based curriculum.



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