



Advancing Data Center  
and IT Infrastructure  
Professionals



EDUCATIONAL PARTNER

CE 5000:

# Critical Environments Manager (CEM)



eLearning Self-Study  
3-day Private Course  
Live Online w/Instructor

## Critical Environments Professional Development Program

Resilience.  
Education.  
Credentialing.



The International Consortium  
For Organizational Resilience

# Critical Environments Manager (CEM)



**Audience:** Managers of mission-critical environments responsible for strategic oversight and maintenance activities with full accountability for ensuring the CE is reliably available 24x7x365.

The focus of CE 4000/5000 is on how to manage the critical environment as well as budgeting. The course includes a detailed overview of the various aspects of asset management and tackles topics such as preparing for equipment issues and evaluating critical systems for operational capability. Managing the engineering budget is an important part of CE management as well as an understanding of an engineering financial plan.

The course takes a close look at how to increase energy efficiency, how to study trends to plan for capacity, as well as how to prepare to be audited, and reviewing each aspect of a comprehensive maintenance program.

## 8 Lessons / Competency Areas

### 4000.1 Documentation & Operating Procedures

1. Reviewing documentation
2. Creating new documentation & procedures
3. Meeting asset management expectations
4. Conducting end of life planning

### 4000.2 Design, Construction Standards & Code Compliance

1. Best practices program development
2. Evaluating designs for reliability and redundancy
3. Understanding construction standards
4. Applying code requirements

### 4000.3 Evaluating Drawings

1. Understanding different types of drawings
2. Managing projects and managing change
3. Evaluating systems and documentation to prevent outages
4. Closing gaps in the drawing evaluation program

### 4000.4 Long Term Budgeting

1. Budgeting best practices
2. Budgeting methodology
3. Budget types
4. Total cost of ownership (TCO)

### 4000.5 Energy Efficient Operations

1. Understanding efficiency service categories
2. Understanding energy consumption
3. Energy efficiency certifications
4. Critical thinking about efficiency

### 4000.6 Retaining, Planning, and Reporting

1. Retaining redundancy
2. Capacity planning
3. Creating detailed reports
4. Analyzing trends

### 4000.7 Preparing to be audited

1. Understanding types of audits
2. Audit preparedness practices
3. Meeting management & data collection
4. Staff training

### 4000.8 CMMS Expectations

1. Understanding the purpose and use of the CMMS
2. Scheduling aspects of the CMMS
3. Maintenance and critical spares
4. Preventative, predictive & corrective maintenance

## Credentials

The Critical Environments Manager (CEM) certification exam is included in the course registration. The CEM certification exam can also be challenged online without taking a class.

Exams are a combination of multiple choice and practical-based problem solving.

# Managing 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.



Build-Resilience.org | TheICOR.org  
info@theicor.org | +1630.705.0910 Int'l  
1.866.765.8321 Toll Free North America