



Advancing Data Center  
and IT Infrastructure  
Professionals



EDUCATIONAL PARTNER

# CE 2000/3000: Critical Environments Technician (CET)



eLearning  
3 day instructor led  
Blended Learning

## Critical Environments Professional Development Program

Resilience.  
Education.  
Credentialing.



The International Consortium  
For Organizational Resilience

# Critical Environments Technician (CET)



**Audience:** Technicians in the data center or other critical environment. Those responsible for operating and maintaining the equipment in the CE.

The focus of CE 2000/3000 is on how to operate and maintain the critical environment. The course includes practical knowledge such as how to determine proper asset control practices, methods of climate control, study of control logic and design, and an analysis of systems to ensure functionality and maintenance in order to ensure availability.

In addition, power generation, distribution, and transference is discussed in detail so the Technician has an understanding of the path to power, the ability of each component, the limitations of each system, and an understanding of how to minimize the potential for outage.

The course also includes a study of the IT systems supported by the critical infrastructure as well as methods for capacity planning, reporting, and budgeting. Filled with practical activities that focus on problem solving to bridge theory with learning that can be applied immediately on the job.

## 8 Lessons / Competency Areas

### 2000.1 Documentation, Drawings, & Compliance

1. Proper documentation practices
2. Drawings & system evaluations
3. Written procedures
4. The CMMS

### 2000.2 HVAC & Chiller Plants

1. System design elements
2. Understanding heat sources
3. CRACs & central air handling units
4. Cooling systems & piping systems

### 2000.3 Power Generation

1. Primary & alternative sources of power
2. Programmable Logic Controller
3. Generator load management
4. Backup methodology

### 2000.4 Power Distribution

1. Critical path to power
2. Monitoring and metering critical loads
3. Generator load management
4. Infrastructure Tier Logic

### 2000.5 Transferring Critical Power Sources

1. The UPS system and how it works
2. The Automatic Transfer Switch (ATS)
3. The Automatic Static Transfer Switch (ASTS)

### 2000.6 Security, Fire, and Life Safety

1. Physical security
2. Fire systems
3. Life safety systems
4. The EPO switch

### 2000.7 Servers, Networks, and Cabling

1. Equipment management
2. The network system
3. Design for criticality
4. Cabling, security, & leak detection

### 2000.8 Capacity Planning & Reporting

1. Capacity planning methods & logic
2. Capacity planning concerns
3. Tools for understanding capacity
4. Reporting & budgeting

## Credentials

The Critical Environments Technician (CET) certification exam is included in CE 2000 elearning course and CE 3000 instructor-led course. The CET certification exam can be challenged online without taking a course.

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.

# Operating & Maintaining 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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