

Critical Environments Technician (CET) CS IL TIFM3000

Duration: 3 days

Course audience is those responsible for day-to-day operation and maintenance of the critical environment's physical infrastructure (Electrical/Mechanical/Fire) systems.

Offered as a 3-day Instructor-led course, the focus of TIFM /3000 is on the operation and maintenance of the critical environment's infrastructure.

The certificate awarded designates Critical Environments Technician Associate in Documentation, HVAC, Power Generation, etc.

Certification

The Critical Environments Technician (CET) Certification Exam may be challenged after completing one or more of the courses in the series or without completing any of ICOR's education programs. To earn the CET certification, a minimum score of 75% in each of the course content areas (3000.1-3000.8) is required. Exam is practicum or practical problem-solving question based.

Operating & Maintaining Mission-Critical Environments

3000.1 Documentation, Drawings and Compliance / CMMS

1. Identification of proper documentation practices.
2. Types of drawings encountered in the practice of critical environment system evaluations.
3. Determination of proper asset control practices as they pertain to maintenance documentation, records keeping and tracking of equipment life cycles.

3000.2 HVAC and Chiller Plants – CRAC, Chiller, Cooling Towers, Chemistry, Piping Systems

1. Detailed instruction on various methods of climate control for critical environments.
2. Analysis and discussion of each type of system as to functionality and maintenance to ensure availability and typical problem identification and resolution.

3000.3 Power Generation, PLC and Backup Methodology – DC Power Sources

1. Detailed discussion of generator systems and controls.
2. In-depth study of control logic and design.
3. Detailed discussion of the specific maintenance actions required for types of systems
4. Identification of specific requirements for ensuring continued operability.

3000.4 Power Distribution, Metering, and Infrastructure / Tier Logic

1. Review of switchgear, fuses, breakers, buss work and more.
2. Detailed instruction on each piece of equipment that carries electrical current from the source (utility / generators / batteries) to the loads in the critical space.

3000.5 UPS, ATS and ASTS – Transferring Critical Power Sources

1. Identification of the operation/maintenance requirements for critical components.
2. Discussion of the capability of static power transfer and the ability of each component to perform a source transfer without interruption to the load.
3. Instruction on the limitations of each system and an understanding of how to minimize the potential for outage.



1855 Lakeland Drive
Suite R-101
Jackson, MS 39216
Tele: 601-914-4500
Fax: 601-914-4503
www.systemsit-ms.com

3000.6 Security, Fire and Life Safety includes Emergency Power Off Button (EPO)

1. Focused training on protecting the critical environment from security risks both in practice and design.
2. Review of each component of a critical environment that ensures safety and security of the physical space as well as personnel
3. Identification on how each one is used in the prevention/identification of fires & used to ensure the safety of individuals working around the data center & support spaces.

3000.7 Server Components, Networking & Design Methods/Cabling

1. Study of the IT equipment typically supported by the critical infrastructure.
2. Identification of the proper installation and layout of the floor and surrounding spaces.

3000.8 Capacity Planning and Reporting / Budget Planning

1. Discussion of the various methods for identifying and reporting each type of capacity that is important to the operation of the critical space.
2. The study Includes power, cooling, physical space, and more.
3. Review of budget concerns regarding typical high dollar items that will require planning and approvals.



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Systems IT
1855 Lakeland Dr.
Suite R-101
Jackson, MS 39216

Joe Dixon
Work: 601-914-5025
joe@systemsit-ms.com

