CDRP®

NETWORK TRAINING CENTER

epi® *Protecting your interests*

CERTIFIED DATA CENTRE RISK PROFESSIONAL

Introduction

Data centres are the heart of modern business operations, hosting mission-critical data and systems that enable seamless service delivery. Their availability, performance, and security are essential to ensuring organizational success and continuity. However, as the complexity of data centre environments increases, so too does the potential for risk. Whether it's cyber threats, equipment failures, power outages, or natural disasters, the cost of unavailability can be catastrophic, not only in terms of financial loss but also in damage to reputation and customer trust.

This 2-day course is designed for professionals responsible for the operational resilience and security of data centres. It focuses on the identification, assessment, and management of risks within data centre environments, emphasizing the importance of proactive measures to mitigate potential threats.

You will learn how to develop a risk management strategy that aligns with both organizational goals and regulatory requirements, ensuring compliance with international standards.

With practical, hands-on sessions and expert guidance, you will leave with the skills and confidence to secure your data centre and protect your organization's most valuable assets.

Audience

The primary audience for this course is data centre and IT specialists, as well as risk and compliance managers responsible for ensuring and enhancing the availability and manageability of data centres. This represents both end-customers and/or service providers/ facilitators.

It is highly recommended for roles such as Data Centre Managers, Operations/ Floor/Facility Managers, IT Managers, Information Security Managers, Security Professionals, Auditors, Risk Managers/Professionals responsible for corporate governance, risk and compliance.

Prerequisites

There is no special prerequisite for the CDRP® course. However, participants who have at least three years' experience in a data centre and/or IT infrastructure will be best suited. This experience may come from business, data centre or IT roles. Attendance of CDCP® is beneficial but not a requirement.

Global Accreditation & Recognition

World-wide accredited by
EXIN

Course Benefits ☑

After completion of the course the participant will be able to:

☑ Understand various risks associated with data centre facilities, such as site selection, facility infrastructure, power and cooling systems, and fire suppression, enabling better risk mitigation strategies.

☑ Identify risks in data centre environments, including asset-based and event-based identification, and develop the skills to analyze risks qualitatively, semi-quantitatively, and quantitatively.

☑ Recognize the critical financial and operational consequences of data centre downtime and understand the main causes, empowering you to prioritize risk treatment and prevention.

☑ Get acquainted with both generic and data centre-specific standards and guidelines (e.g., ISO/IEC 27001), ensuring that your risk management strategies align with industry best practices and regulatory requirements.

☑ Gain a high-level understanding of the risk management process, including risk identification, analysis, evaluation, treatment, and communication, helping you implement a structured risk management plan.

☑ Understand the process of context establishment, defining internal and external contexts, and evaluating risk through criteria such as likelihood and impact, ensuring more accurate and effective decision-making.

☑ Explore key policies related to risk management, physical security, safety, and maintenance, providing a clear framework for ensuring compliance and managing risks within the organization.

☑ Select various risk treatment options, how to develop a Risk Treatment Plan (RTP), and how to overcome constraints in the treatment process, giving you the tools to reduce risks effectively.

☑ Understand the importance of communication and consultation in risk management

☑ Monitor and review risk management activities, including the use of Key Risk Indicators (KRIs) and risk assessment matrices, ensuring ongoing risk mitigation and process improvement.

☑ Integrate project management principles, including scope, time, and cost considerations, into the risk management process, ensuring that projects are delivered on time and within budget while minimizing risk exposure.

Course Syllabus 📖

- **Introduction to Risk Management**
  – Risk management concepts
  – Risk domains
  – Enterprise Risk Management (ERM)

- **Data Centre Risk and Impact**
  – Data centre risk – site selection
  – Data centre risk - facility
  – Data centre risk – power infrastructure
  – Data centre risk – cooling infrastructure
  – Data centre risk – fire suppression
  – Data centre risk – operations
  – Data centre risk - organization
  – Impact of data centre downtime
  – Main causes of downtime
  – Cost factors in downtime

- **Standards and Guidelines**
  – Standards (generic)
  – Guidelines (generic)
  – Standards (data centre specific)

- **Risk Management Terminology**
  – The importance of terminology
  – Risk management terminology
  – Types of risk

- **Risk Management High-Level Overview**
  – Risk management processes
  – Context establishment
  – Risk identification
  – Risk analysis
  – Risk evaluation
  – Risk treatment
  – Communication and consultation
  – Monitoring and review

- **Risk Assessment Considerations**
  – Project management principles
  – Scope
  – Time
  – Cost
  – Organization

- **Policies**
  – ISO/IEC 27001
  – Risk management policy
  – Physical security policy
  – Safety policy
  – Maintenance policy

- **Context Establishment**
  – Context establishment
  – Internal context
  – External context
  – Interested parties
  – Applying the risk assessment
  – Consequence (impact) criteria
  – Likelihood (probability) criteria
  – Determining the level of risk
  – Risk acceptance criteria

- **Risk Assessment**
  – Risk management approach and methods
  – Types of methods
  – Risk assessment phases
  – Types of assessment
  – Event-based assessment
  – Asset-based assessment

- **Risk Assessment – Identification**
  – Elements of risk
  – Identification of risk
  – Event-based identification
  – Asset-based identification

- **Risk Assessment – Analysis**
  – Qualitative analysis
  – Semi-quantitative analysis
  – Quantitative analysis
  – Risk analysis considerations
  – Assessment of consequences
  – Assessment of likelihood
  – Determining the level of risk

- **Risk Assessment – Evaluation**
  – Risk evaluation
  – Risk evaluation criteria
  – Risk appetite
  – Risk tolerance
  – Risk evaluation (continued)

- **Risk Treatment**
  – Process flow
  – Process steps
  – Options for risk treatment
  – Contraints
  – Control categories
  – Cost-benefit analysis
  – Statement of Applicability (SoA)
  – Risk Treatment Plan (RTP)
  – Approval
  – Implementation

- **Communication and Consultation**
  – Communication and consultation
  – Objectives
  – Key factors
  – Documented information

- **Monitoring and Review**
  – Monitoring and review
  – Risk factors
  – Continous monitoring
  – Key Risk Indicators (KRIs)
  – Risk assessment matrix
  – Monitoring, review and improvement of the risk management program and its processes
  – Continual improvement

- **Exam**
  – Sample questions
  – Self study (time permitted)
  – Exam: Certified Data Centre Risk Professional

Delivery Structure and Methods

The CDRP® course is lectured by an EPI Certified Instructor using a combination of lectures and question-and-answer sessions to discuss participants' specific needs and challenges experienced in their own data centre environments. Participants are able to tap into the extensive experience of the trainer enabling them to validate and improve their own environments thus adding tremendous business value. The CDRP® course is approximately 80% lecture and 20% hands-on.

CDRP® course is available in the following delivery methods:
- ILT – Instructor Led Training
- VILT – Virtual ILT
- TOD – Training On Demand

The classes are available on public schedule as well as private group training.

Examination

The exam is a 60-minute closed book exam, with 40 multiple-choice questions. The candidate requires a minimum of 27 correct answers to pass the exam.

Certification

Candidates who successfully pass the exam will receive the official 'Certified Data Centre Risk Professional' certificate. The certification is valid for three years after which the student needs to re-certify. More information is available on the EPI corporate website at www.epi-ap.com.

Global Accreditation & Recognition

The CDRP® course is accredited by EXIN, which is a global, independent and not-for-profit accreditation and examination provider. EXIN's mission is to improve the quality of the IT and data centre sectors, the proficiency of IT and data centre professionals and the IT users, by means of accreditation of course material as well as independent examination and certification.

Recommended Next course

To further extend your skills in the data centre design arena, the CDCP® course is recommended. CDCP® exposes participants to the key components of the data centre. For full course outlines visit the EPI corporate website, www.epi-ap.com

Candidates with a desire to gain better understanding and skills on IT management are recommended to take the CITM® course. CITM® is designed to expose participants to all the key aspects of a Data Centre / IT Operations / Infrastructure department in a mission critical environment. It addresses the responsibilities of the modern IT Manager.

Course Schedule

Our courses are available in over 60 countries across all continents. For a comprehensive course schedule, visit the EPI corporate website at www.epi-ap.com or contact your local authorised reseller/partner.

EPI Data Centre Training Framework©

The **EPI Data Centre Training Framework**© provides a structured course curriculum for individuals working in and around data centre facilities and data centre operational management. It addresses the various disciplines required to design and manage a high-availability, efficient data centre. EPI's data centre course curriculum is not only the first in the world, it is also by far the largest in the industry. Many companies have specified these courses as prerequisites for their staff working in and around the data centre and use them as part of their career planning initiatives. Recognized globally, these certifications add value to both companies and individuals.
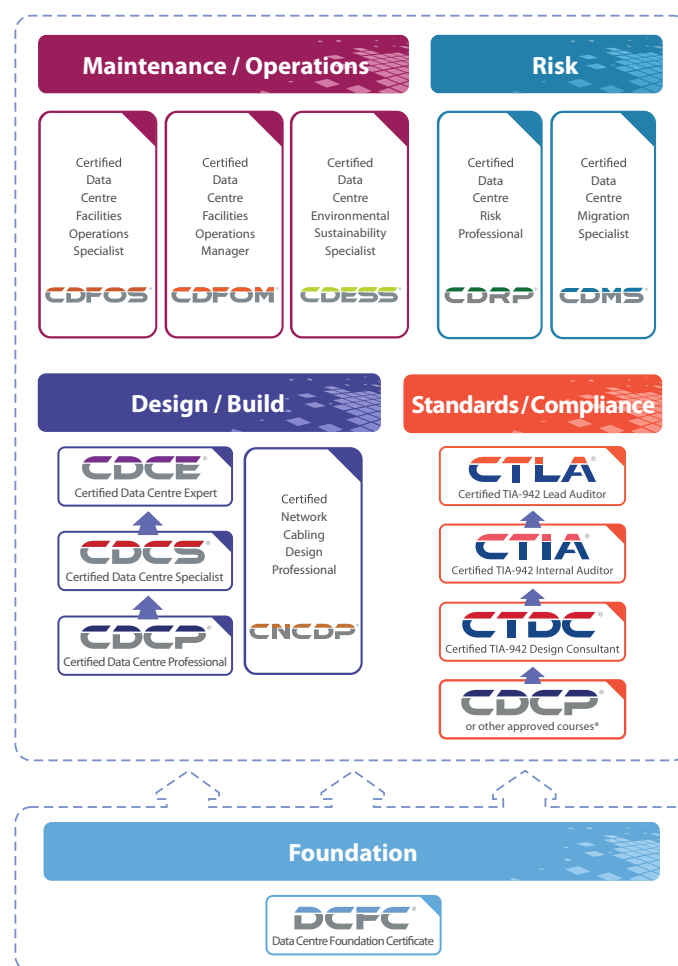
![epi logo - Protecting your interests]

The Company

EPI is a data centre specialist company of European origin operating world-wide in over 60 countries through direct operations and a large partner network. EPI offers an extensive range of data centre services on auditing, certification and training. EPI's focus is on mission-critical, high-availability environments. Established in 1987, EPI has developed an international reputation for delivering high quality technical expertise, with flexible and innovative services, techniques and methodologies.

All our services are aimed at helping our customers to:
- Increase **Availability** of their mission-critical infrastructure
- Improve **Efficiency**, **Effectiveness** and **Manageability**
- **Minimise risk** of business interruption

Our Clients share a common need to protect their valuable data, run their mission-critical infrastructure efficiently and to be protected on a 24 x 7 basis. By protecting the interests of our customers, EPI is committed to an intensive program of comprehensive services development backed by engineering and support excellence.

Quality Systems and Procedures have always been at the heart of every stage of our service delivery to ensure consistent and high quality services. We are known for our thoroughness, flexibility and responsiveness. We focus on providing servicess that fit each organization and each project with a drive to deliver quality on time, every time.

Let us put our expertise to work for you!

Data Centre Services

Audit & Certification
• Data Centre Standards
  - ANSI/TIA-942
  - DCOS®
  - EN 50600
  - ISO/IEC TS 22237

• Other International Standards
  - ISO 9001
  - ISO 14001
  - ISO 14644
  - ISO/IEC 20000-1
  - ISO 22301
  - ISO/IEC 27001
  - ISO/IEC 27701
  - ISO 37001
  - ISO 45001
  - ISO 46001
  - ISO 50001
  - PCI DSS

• Singapore Standards
  - SS 507
  - SS 564
  - SS 584
  - DTPM
  - CBPR
  - PRP

Professional Training & Certifications
- Data Centre
  DCFC®, CDCP®, CDCS®, CDCE®, CNCDP®
  CDFOS®, CDFOM®, CDESS®, CDRP®, CDMS®,
  CTDC®, CTIA®, CTLA®

- IT
  CITO®, CITM®, CITD®

Non-Certification Training
- Digital Transformation

Frameworks
- IT&DCF® - IT & Data Centre Framework
- DCCF® - Data Centre Competence Framework
- DCTF® - Data Centre Training Framework
- ITTF - IT Training Framework

Standard
- DCOS® - Data Centre Operations Standard
- MDCS - Modular Data Centre Standard
- SCMDCS - Self-Contained Modular Data Centre Standard
- CRUR® - Computer Room Utilisation Ratio

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www.youtube.com/c/EPIDataCentreServices