



CERTIFIED DATA CENTRE MIGRATION SPECIALIST

Introduction

Data centre migration is a challenge faced by an increasing number of organisations who are relocating their data centre due to space, power and/or cooling limitations of their current facilities. A data centre move could also be due to other considerations such as consolidation of multiple data centre sites and/or targeting lower cost of operation (Opex) by improving efficiency and other initiatives.

Data centre migration is an exceptionally high-risk undertaking. Most data centre professionals have never done this before. Some professionals have done it only a few times in their life. The level of effort required in the planning and discovery phases is directly proportionate to the amount of risk mitigated. It is an exercise that requires collaboration and interfacing with various stakeholders in the organisation - some for the first time ever.

The Data Centre Migration Specialist course is a two-day course designed to expose participants to all aspects of a data centre migration. It provides a step-by-step methodology which will enable them to reduce the risks involved in such a complex undertaking. It will also provide participants with valuable and practical hints and tips used by seasoned data centre professionals who have done multiple complex migrations.

Risk Training

CDMS[®] is part of the Risk training track.



Audience

The primary audience is any IT, facilities or data centre operations professional working in and around the data centre (both end-customers and/or service provider/facilitators) and having to handle data centre migration projects and/or data centre strategies. These include Project Managers, Data Centre Managers, Operations/Floor/Facility Managers, IT Managers, Network/System Engineers, Data Centre Sales/Consultants, Logistic Managers.

Prerequisites

There is no specific prerequisite for the CDMS[®] course. However, participants who have actual experience in the data centre and/or IT infrastructures are best suited. Attendance of the CDCP[®] course is recommended but not a requirement.

Global Accreditation & Recognition



Course Benefits

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

- Develop and review their data centre strategy
- Use different risk assessment methodologies together with practical tips specifically for data centre migrations to reduce the risk during a data centre migration
- Understand different migration strategies
- Understand the legal aspects when migrating a data centre
- Understand the importance of Business Service Reviews and Service Level Objectives
- Size and design the target data centre
- Understand the importance of detailed discovery and how dependencies influence migration waves
- Understand the safety requirements during migration
- Get lots of practical tips when moving to another data centre

- **Data Centre Strategy**
 - Data centre lifecycle
 - Reasons to migrate a data centre
 - Alternatives to data centre migration
 - Consolidation
 - Outsourcing
 - Cloud computing
 - Upgrade existing data centre or build new
- **Project Management**
 - Project management and methods
 - Scope statement
 - Statement Of Work (SOW)
 - Work Breakdown Structure (WBS)
 - Allocate time to the project
 - Cost and estimation methodology
 - Project communication
- **Risk Management**
 - Risk management and methods
 - Risk identification
 - Risk assessment methodologies
 - Qualitative approach
 - Semi-quantitative approach
 - Quantitative approach
 - Risk evaluation
 - Risk treatment
 - Risk in data centre migrations
- **Migration Strategies**
 - Different data centre migration strategies
 - Heterogeneous migration
 - Homogeneous migration
 - Physical migration
 - Different IT transformations
 - Pre-migration transformation
 - Migration transformation
 - Post-migration transformation
- **Legal Aspects**
 - Regulatory requirements
 - Contractual considerations
 - Legal aspects when decommissioning
- **High Level Discovery & Planning**
 - The importance of Business Service Reviews
 - The concept of Availability
 - The concept of Recoverability
 - The importance of Service Level Objectives
 - Requirements on designing the target IT architecture
 - Information needed for high level planning
- **Design Target Data Centre**
 - Requirements for the target data centre
 - Sizing the data centre
 - Architectural requirements
 - Cooling requirements
 - Power requirements
 - Security
- **Detailed Discovery and Planning**
 - The importance of discovery
 - Automated discovery tools
 - Asset management
 - Network and system dependencies
 - Detailed migration planning
 - Migration waves
 - Staffing
 - Warranties and insurance
- **Safety**
 - Safety precautions
 - Technical safety review
 - Electrical safety
 - Lifting
 - Personal safety during migration
 - Fire safety during migration
- **Security**
 - Controversy between access and security
 - Access control
 - Managing security during migration
 - Security during migration
 - Key management
 - Practical hints and tips
 - Continuous improvement
- **Implementation**
 - Rehearsal
 - Route investigation
 - Resourcing
 - Logistics team
 - Packing
 - Transport
 - Installing the equipment
 - Post migration support
- **Data Centre Retirement**
 - Main points to consider
 - Retiring ICT hardware
 - Retiring data centre facility systems
 - Retiring data centre building
 - Consider environmental aspects
 - Legal aspects
- **End of Project**
 - Project closure
 - Lessons learned
 - Phased completion of project
 - Criteria for project closure
 - The outcome of the project
 - End of project
- **Exam**
 - Sample questions
 - Self study (time permitted)
 - Exam: Certified Data Centre Migration Specialist



Delivery Structure and Methods

The CDMS® 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.

CDMS® 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 Migration Specialist' 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 CDMS® 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

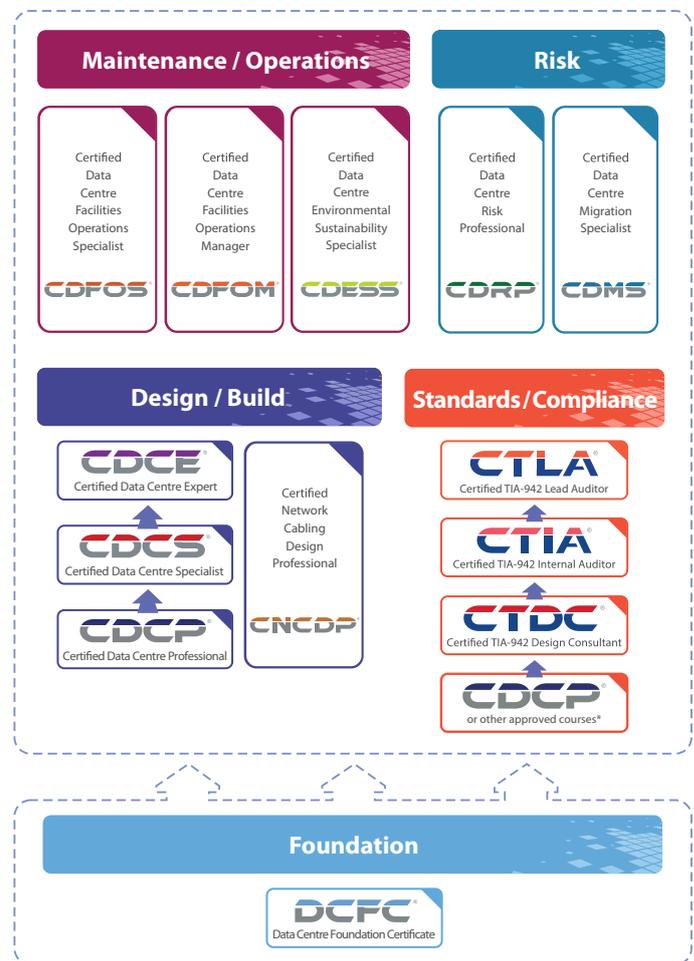
To further extend your skills in the data centre design arena, we recommend the CDCP® course. CDCP® exposes participants to the key components of the data centre. For the full course outlines visit the EPI corporate website www.epi-ap.com.

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.





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 services 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
 - EN 50600
 - DCOS®
 - ISO/IEC TS 22237
- Other International Standards
 - ISO 9001
 - ISO/IEC 27701
 - ISO 14001
 - ISO 37001
 - ISO 14644
 - ISO 45001
 - ISO/IEC 20000-1
 - ISO 46001
 - ISO 22301
 - ISO 50001
 - ISO/IEC 27001
 - PCI DSS
- Singapore Standards
 - SS 507
 - DTPM
 - SS 564
 - CBPR
 - SS 584
 - 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
- MDSCS - Modular Data Centre Standard
- SCMDCS - Self-Contained Modular Data Centre Standard
- CRUR® - Computer Room Utilisation Ratio



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