

Certified Data Center Migration Specialist (CDMS) H6D36S

HPE course number	H6D36S
Course length	2 days
Delivery modes	ILT, VILT
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This course is designed to expose participants to all aspects of a data center 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 center professionals who have done multiple complex migrations.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

Audience

The primary audience is any IT, facilities or data center operations professional working in and around the data center (both end-customers and/or service provider/facilitators) and having to handle data center migration projects and/or data center strategies. These include project managers, data center managers, operations/floor/facility managers, IT managers, network/system engineers, data center sales/consultants, logistic Managers.

Prerequisites

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

Course objectives

After completion of the course, the attendee will be able to:

- Develop and review their data center strategy.
- Use different risk assessment methodologies together with practical tips specifically for data center migrations to reduce the risk during a data center migration.
- Understand different migration strategies.
- Understand the legal aspects when migrating a data center.
- Understand the importance of Business Service Reviews and Service Level Objectives.
- Size and design the target data center.
- 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 center.

Detailed course outline

Data center strategy

- Data center lifecycle
 - Reasons to migrate a data center
 - Alternative to data center migration
 - Consolidation
 - Outsourcing
 - Cloud computing
 - Upgrade existing data center or build new
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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
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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 center migrations
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Migration strategies

- Different data center migration strategies
 - Heterogeneous migration
 - Homogeneous migration
 - Physical migration
 - Different IT transformations
 - Pre-migration transformation
 - Migration transformation
 - Post-migration transformation
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Legal aspects

- Regulatory requirements
 - Contractual considerations
 - Legal aspects when decommissioning
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High level discovery and 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
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| Design target data center | <ul style="list-style-type: none">• Requirements for the target data center• Sizing the data center• Architectural requirements• Cooling requirements• Power requirements• Security |
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| Detailed discovery and planning | <ul style="list-style-type: none">• The importance of discovery• Automated discovery tools• Asset management• Network and system dependencies• Detailed migration planning• Migration waves• Staffing• Warranties and insurance |
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| Safety | <ul style="list-style-type: none">• Safety precautions• Technical safety review• Electrical safety• Lifting• Personal safety during migration• Fire safety during migration |
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| Security | <ul style="list-style-type: none">• Controversy between access and security• Access control• Managing security during migration• Security during migration• Key management• Practical hints and tips• Continuous improvement |
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| Implementation | <ul style="list-style-type: none">• Rehearsal• Route investigation• Resourcing• Logistics team• Packing• Transport• Installing the equipment• Post migration support |
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| End of project | <ul style="list-style-type: none">• Why project closure• Lessons learned• Phased completion of project• Criteria for project closure• The outcome of the project• End of project |
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| Exam | <ul style="list-style-type: none">• Sample questions• Self-study (time permitted)• Exam: Certified data center migration specialist |
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Examination accredited by EXIN

Certification exams are administered at the end of the last day of training, using paper-based or online format, depending on

the country in which the course is delivered. 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. The certification is valid for three years after which the student needs to re-certify.

Recommended next courses

CDCP Certified Data Center Professional (HK258S) exposes participants to the key components of the data center.

Learn more at
hpe.com/ww/learndatacenter

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