

# Certified Data Center Risk Professional (CDRP) H6D35S

<b>HPE course number</b>	H6D35S
<b>Course length</b>	2 days
<b>Delivery modes</b>	ILT, VILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
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This 2-day course is designed to expose attendants to the overall risk management process. Focus is on the data center infrastructure, the physical data center facility, and equipment. The attendant will learn how to identify and quantify risk in their organization, creating the ability to reduce the risk to a level acceptable for the organization to allow them to make sound investment decisions based on facts rather than emotions. CDRP is a must for every organization that wants to manage their risk without over spending.

## 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 for this course is any IT, facilities or data center operations professional who works in and around the data center and who has the responsibility to achieve and improve the availability and manageability of the data center. This represents both end-customers and/or service providers/facilitators. It is highly recommended for data center managers, operations/floor/facility managers, IT managers, information security managers, security professionals, auditors, risk managers/professionals responsible for IT/corporate governance.

## Prerequisites

There is no specific prerequisite for the CDRP course. However, participants who have at least three years' experience in a data center and/or IT infrastructures will be best suited. This experience may come from a business or IT background where the participant has knowledge of both environments, and understands the mission of their organization. Attendance of CDCP is beneficial but not a requirement.

## Course objectives

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

- Understand the different standards and methodologies for risk management and assessment.
- Establish the required project team for risk management.
- Perform the risk assessment identifying current threats, vulnerabilities, and the potential impact based on customized threat catalogues.
- Report on the current risk level of the data center both quantitative and qualitative.
- Anticipate and minimize potential financial impacts.
- Understand the options for handling risk.
- Continuously monitor and review the status of data center risk present.
- Reduce the frequency and magnitude of incidents.
- Detect and respond to events when they occur.
- Meet regulatory and compliance requirements.
- Support certification processes such as ISO/IEC 27001.
- Support overall corporate and IT governance.

## Detailed course outline

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### Introduction to risk management

- Risk management concepts
  - Senior management and risk
  - Enterprise Risk Management (ERM)
  - Benefits of risk management
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### Data center risk and impact

- Risk in facility, power, cooling, fire suppression, infrastructure, and IT services
  - Impact of data center downtime
  - Main causes of downtime
  - Cost factors in downtime
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### Standards, guidelines, and methodologies

- ISO/IEC 27001:2013, ISO/IEC 27005:2011, ISO/IEC 27002:2013
  - NIST SP 800-30
  - ISO/IEC 31000:2009
  - SS507:2008
  - ANSI/TIA-942
  - Other methodologies (CRAMM, EBIOS, OCTAVE, etc.)
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### Risk management definitions

- Asset
  - Availability/Confidentiality/Integrity
  - Control
  - Information processing facility
  - Information security
  - Policy
  - Risk
  - Risk analysis/Risk assessment/Risk evaluation/Risk treatment
  - Threat/Vulnerability
  - Types of risk
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### Risk assessment software

- The need for software
  - Automation
  - Considerations
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### Risk management process

- The risk management process
  - Establishing the context
  - Identification
  - Analysis
  - Evaluation
  - Treatment
  - Communication and consultation
  - Monitoring and review
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### Project approach

- Project management principles
  - Project management methods
  - Scope
  - Time
  - Cost
  - Cost estimate methods
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**Context establishment**

- General considerations
- Risk evaluation, impact, and acceptance criteria
- Severity rating of impact
- Occurrence rating of probability
- Scope and boundaries
- Scope constraints
- Roles and responsibilities
- Training, awareness, and competence

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**Risk assessment—identification**

- The risk assessment process
- Identification of assets
- Identification of threats
- Identification of existing controls
- Identification of vulnerabilities
- Identification of consequences
- Hands-on exercise: Identification of assets, threats, existing controls, vulnerabilities, and consequences

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**Risk assessment—analysis and evaluation**

- Risk estimation
- Risk estimation methodologies
- Assessment of consequences
- Assessment of incident likelihood
- Level of risk estimation
- Risk evaluation
- Hands-on exercise: Assessment of consequences, probability, and estimating level of risk

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**Risk treatment**

- The risk treatment process steps
- Risk Treatment Plan (RTP)
- Risk modification
- Risk retention
- Risk avoidance
- Risk sharing
- Constraints in risk modification
- Control categories
- Control examples
- Cost-benefit analysis
- Control implementation
- Residual risk

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**Communication**

- Effective communication of risk management activities
- Benefits and concerns of communication

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**Risk monitoring and review**

- Ongoing monitoring and review
  - Criteria for review
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## Course data sheet

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### Risk scenarios

- Risk assessment approach
- Data center site selection
- Data center facility
- Cloud computing
- UPS scenarios
- Force majeure
- Organizational shortcomings
- Human failure
- Technical failure
- Deliberate acts

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### Exam

- Sample questions
  - Self-study (time permitted)
  - Exam: Certified Data Center Risk Professional
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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.

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