



## HP Education Services Course Description

Certified Data Center Risk Professional (CDRP®) Training (H6D35S)

This 2-day course is designed to expose attendants to the overall risk management process. Focus is on both the data center infrastructure and 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. The course is based on international standards and guidelines and will additionally prepare the candidate being able to take part and assist in corporate certification processes that may apply.

### Audience

- The primary audience for this course is any IT, Facilities or Data Center Operations professional working in and around the data center (representing both end-customers and/or service provider / facilitators) and having responsibility to achieve and improve hi-availability and manageability of the Data Center.

### Prerequisites

- While there are no specific requirements for this course, participants with at least three years of actual experience in data center and/or IT infrastructures is recommended. Having attended CITM® and/or CDCP® is recommended but not a requirement.

### Delivery structure

- The courses are lectured by certified trainers. CDRP® is an instructor-led course that uses a combination of lectures and question-and-answer sessions, to discuss participants' specific needs and issues experienced in their own environment. The CDRP® course is approximately 80% lecture and 20% hands-on. Participants are able to tap on the trainer's extensive experience to solve practical problems in their current environment, adding tremendous value.

### Course objectives

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

- Understand the different standards and methodologies for risk management and assessment.

<b>Course title:</b>	Certified Data Center Risk Professional (CDRP®) Training
<b>HP product number:</b>	H6D35S
<b>Category/Subcategory:</b>	Data Center / Operations & Governance
<b>Course length:</b>	2 days
<b>Level:</b>	Foundation
<b>Delivery language:</b>	English
<b>To order:</b>	In HK, please contact HP Education Services on (852) 3070-6692 or email at <a href="mailto:hp-education.hk@hp.com">hp-education.hk@hp.com</a> or visit <a href="http://www.hp.com.hk/education">www.hp.com.hk/education</a> Other countries please visit <a href="http://www.education.hp.com">www.education.hp.com</a>

- 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.

## Examination accredited by EXIN

- The exam is 1 hour, 40 questions, closed book and multiple choice based. The candidate requires a minimum of 27 correct answers to pass the exam. Candidates who successfully pass the exam will receive the official Certified Data Center Risk Professional certificate. The certification is valid for three years after which the student needs to re-certify.

## Benefits to you

- Understand more about all aspects of risk management.
- Receive training and advice from one of the industry's leading experts.
- Obtain the CDRP® certificate.

## Why education services from HP?

- Global reach through 90 training centers in 45+ languages, with access to over 800+ experienced instructors.
- Job-focused courses on HP technologies leading to HP ExpertOne certifications.
- Wide range of education consulting services tailored to your specific needs to prepare you for IT transformation projects.
- Flexibility to learn through a wide variety of delivery modalities: traditional ILT (Instructor-led), VILT (Virtual instructor-led), SPEL (Self paced e-learning), games and simulations.

## Next steps

- CITM® Certified IT Manager (HK333S) course is designed to expose participants to all the key aspects of a Data Center / IT Operations / Infrastructure department in a mission critical environment, addressing the responsibilities of the modern IT Manager.
- CDCP® Certified Data Center Professional (HK258S) course exposes participants to the key components of the data center.

## Detailed course outline

### Introduction to Risk Management

- Risk management concepts
- Senior management and risk
- Enterprise Risk Management (ERM)
- Benefits of risk management

### 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

### 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.)

### 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

### Risk Assessment Software

- The need for software
- Automation
- Considerations

### Risk Management Process

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

### Project Approach

- Project management principles
- Project management methods
- Scope
- Time
- Cost
- Cost estimate methods

## Context Establishment

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

## 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

## 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, likelihood and estimating level of risk

## 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

## Communication

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

## Risk Monitoring and Review

- Ongoing monitoring and review
- Criteria for review

## 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

## Exam

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

## For more information

To locate country contact information and to learn more about education services, please visit our worldwide web site at <http://www.hp.com/learn>.

