Advanced Course in IT Disaster and Recovery Management

13 – 24 September 2027
Rome (Italy)



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Introduction

In today's fast-paced digital world, businesses are increasingly vulnerable to risks such as cyberattacks, hardware failures, natural disasters, and human errors. The importance of having a comprehensive IT Disaster Recovery DR and Business Continuity Plan BCP cannot be overstated. A solid IT Disaster Recovery Plan is key to ensuring business continuity, minimizing downtime, and protecting critical assets. This course delves into advanced disaster recovery strategies, modern tools, and frameworks designed to effectively mitigate IT disasters, ensuring that organizations are well-prepared to handle any disruptions.

Participants will learn how to develop and implement IT Disaster Recovery Plans using cloud-based disaster recovery solutions and AI-driven technologies to provide fast and efficient responses to disasters. The course covers the entire IT disaster recovery process, from risk identification to implementing effective solutions, ensuring business continuity and protecting it from disruptions.

Course Objectives

By the end of this course, participants will be able to:

- Understand modern IT disaster recovery frameworks and best practices.
- Develop and implement IT Disaster Recovery Plans DRPs tailored to the needs of their organization.
- Leverage AI-powered and cloud-based disaster recovery solutions for faster recovery.
- Conduct thorough risk assessments and perform effective Business Impact Analysis BIA to ensure proper business continuity planning BCP.
- Implement strong cybersecurity measures to prevent and respond to IT disasters.
- Ensure compliance with industry standards and regulations such as ISO 27001, NIST, and GDPR.

Course Outlines

Day 1: Introduction to IT Disaster Recovery Management

- Understanding IT disasters and their business impact.
- The role of IT Disaster Recovery DR and Business Continuity Planning BCP.
- Emerging trends in IT disaster recovery.
- Case studies: Real-world IT disasters and lessons learned.



Day 2: Risk Assessment & Business Impact Analysis BIA

- Identifying potential IT threats and vulnerabilities.
- Conducting an effective Business Impact Analysis BIA.
- Risk prioritization and mitigation strategies.
- Leveraging AI and automation for risk assessments.

Day 3: IT Disaster Recovery Planning DRP - Foundations

- Core components of an IT Disaster Recovery Plan DRP.
- Establishing Recovery Time Objective RTO and Recovery Point Objective RPO.
- Forming Incident Response Teams IRT and defining roles.
- Regulatory compliance in IT Disaster Recovery Plans ISO, NIST, GDPR, etc..

Day 4: Cloud-Based Disaster Recovery Solutions

- Cloud Disaster Recovery CDR vs. traditional recovery.
- Implementing Backup as a Service BaaS and Disaster Recovery as a Service DRaaS.
- Cloud security and compliance considerations.
- Choosing the right cloud provider for disaster recovery.

Day 5: Cybersecurity & Disaster Recovery

- Common cyber threats leading to IT disasters e.g., ransomware, phishing, DDoS.
- Incident response frameworks for cyberattacks.
- Data encryption, zero-trust security, and access control.
- Implementing SIEM Security Information and Event Management for disaster prevention.

Day 6: Data Backup & Recovery Strategies

- Modern backup techniques Full, Incremental, Differential.
- Offsite vs. Onsite backups - Best practices.
- Immutable backups and ransomware protection.
- AI-driven backup automation.

Day 7: IT Infrastructure Resilience & High Availability

- Redundancy strategies for IT infrastructure.
- High availability architecture - Load balancing & failover solutions.
- Virtualization & containerization for disaster recovery.
- Implementing multi-cloud and hybrid cloud resilience.



Day 8: Disaster Recovery Testing & Drills

- Types of disaster recovery tests Tabletop, Simulation, Full-scale.
- Creating and executing test plans.
- Analyzing test results and improving disaster recovery strategies.
- Leveraging AI and automation for continuous disaster recovery testing.

Day 9: Incident Response & Crisis Communication

- Executing an effective Incident Response Plan IRP.
- Crisis communication strategies for stakeholders.
- Legal and compliance considerations during IT disasters.
- Collaboration with external agencies Govt, Law Enforcement, CERT.

Day 10: Future Trends in IT Disaster Recovery & Course Wrap-Up

- AI and Machine Learning in disaster recovery.
- Using blockchain for data integrity and recovery.
- The rise of self-healing IT systems.
- Final assessment, feedback, and certification.

Why Attend This Course: Wins & Losses!

- Minimize Risks: Learn how to identify vulnerabilities, prioritize risks, and implement strategies to prevent IT disasters from disrupting business operations.
- Achieve Business Continuity: Master the essential techniques to develop, test, and maintain IT Disaster Recovery Plans DRPs and Business Continuity Plans BCP aligned with modern best practices.
- Harness Cutting-edge Solutions: Gain exposure to AI-driven disaster recovery solutions and cloud technologies, allowing you to improve the speed and effectiveness of your recovery strategies.
- Ensure Compliance: Understand the regulatory landscape and ensure that your IT disaster recovery strategies comply with global standards and frameworks like ISO, NIST, and GDPR.

Conclusion

This course offers a comprehensive and cutting-edge approach to IT disaster recovery, equipping participants with the skills and knowledge required to protect their organization from potential IT disruptions. By mastering key disaster recovery frameworks, utilizing advanced technologies, and ensuring compliance with global standards, participants will be prepared to develop resilient IT infrastructures that ensure business continuity.

Whether you're looking to strengthen your organization's existing disaster recovery plan or develop a new one, this course provides the essential tools to succeed in today's increasingly complex digital environment.

