Disaster Recovery Engineer

Course Overview

This course will introduce students to BCP and disaster recovery, as well as teach them about project scope and planning, business impact analysis, BCP design and development phases, BCP plan approval and implementation, testing and validating the plan, and IT recovery strategies.

Module 1 - Introduction to BCP and Disaster Recovery   36m
Introduction to BCP and Disaster Recovery
Introduction
Definitions
The Nature of Disasters - Natural
The Nature of Disasters - Man-Made
Business Continuity Planning (BCP)
Disaster Recovery Planning (DRP)
BCP vs. DRP
Other Types of Plans
Phases of Continuity Planning
Four Phases of the BCP
BCP Step 1: Project Scope and Planning
BCP Step 2: Business Impact Assessment
BCP Step 3: Continuity Planning
BCP Step 4: Approval and Implementation
Module 1 Review

Module 2 - Project Scope and Planning   28m
Project Scope and Planning
Project Initiation Phase
Management Responsibility
Executive Management
Functional Management
Stage 1 - Organizations Operations and Support Services
Stage 2 - BCP Team Selection
Stage 2 - Senior Management and BCP
Stage 3 - Resource Requirements
Stage 3 - Resource Requirements
Stage 4 - Legal and Regulatory Requirements
Stage 4 - Legal and Regulatory Requirements
Other: Departmental Involvement
Other: IT Departmental Issues
Module 2 Review

Module 3 - Business Impact Analysis 48m

Business Impact Analysis
Business Impact Analysis (BIA)
BIA Types
BIA Task 1: Identify Priorities
BIA Task 1: Identify Priorities
BIA Task 1: Identify Priorities
BIA Task 2: Risk Identification
BIA Task 2: Risk Identification
BIA Task 3: Likelihood Assessment and Impact Assessment
BIA Task 3: Likelihood Assessment and Impact Assessment
BIA Task 3: Likelihood Assessment and Impact Assessment
BIA Task 4: Resource Prioritization
BIA Task 5: BIA Reporting
BIA Task 5: BIA Reporting
BIA Task 5: Maximum Tolerable Downtime (MTD)
BIA Task 5: Interdependencies
Demo - BCP from NIST - SP 800-34
Module 3 Review

Module 4 - BCP Design and Development Phases 27m

BCP Design and Development Phases
BCP Policy Draft Cycle
Project Management
BCP Step 3: Continuity Planning
Continuity Planning Sub-Task 1: Strategy Development
Continuity Planning Sub-Task 2: Provisions and Processes
BCP and DRP Objectives
BCP and DRP Objectives
Demo - FFIEC BCP for Financial Institutions
Module 4 Review

Module 5 - BCP Plan Approval and Implementation 20m

BCP Plan Approval and Implementation
BCP Step 4: BCP Plan Approval and Implementation
BCP Step 4: BCP Plan Approval and Implementation
Training and Education
Benefits of Documenting the BCP
BCP Documentation
BCP Documentation
BCP Documentation
BCP Documentation
Module 5 Review

Module 6 - Testing and Validating the Plan   1h 24m

Testing and Validating the Plan
Testing the DRP
Reasons to Test
Documenting Test Process
Test Types
Test Types: Checklist
Test Types: Structured Walk-Through
Test Types: Simulation
Test Types: Parallel
Test Types: Full-Interruption
Data Recovery Plan Maintenance
Emergency Response
BCP and DRP Maintenance
Demo - Ready.gov Business Continuity Planning Suite
Module 6 Review

Module 7 - IT Recovery Strategies   1h 31m

IT Recovery Strategies
Operations: Recovery and Restoration
Hardware Failure
Reasons to Develop a Comprehensive DR Plan
Reasons to Develop a Comprehensive DR Plan
Justifying DR Planning
Recovery Strategy Insurance Coverage
Disaster/Property Insurance
Disaster/Property Insurance
Recovery Strategy Business Unit and Functional Priorities
Recovery Strategy Crisis Management & Emergency Communications
Work Group Recovery
Backups and Offsite Storage
Types of Backups
Backup Tape Formats
Backup Best Practices
Software Escrow Arrangements
Additional DRP Factors
Alternate Processing Sites
Cold Site
Warm Site
Hot Site
Mobile Sites
Service Bureaus
Multiple Processing Centers / Multiple Sites
Redundant Site
Mutual Aid/Assistance Agreements
Mutual Aid/Assistance Agreements
Transaction Redundancy Implementations

Transaction Redundancy Implementations
Recovery Plan Development
Recovery Plan Development
Cloud Strategies
Module 7 Review

Module 8 - Conclusion and Next Steps   4m
Conclusion and Next Steps
Summary
BCP References

Total Duration: 5h 39m