Certified Disaster Recovery Engineer

KEY DATA

Course Title: Certified Disaster Recovery Engineer

Duration: 4 days

Class Format Options:

Instructor-led classroom
Live Online Training

Prerequisites:

- A minimum of 1 year of Information Systems or IS Management

Student Materials:

- Student Workbook

Certification Exams:

- Mile2 C)DRE – Certified Disaster Recovery Engineer

CPEs: 32 Hours

WHO SHOULD ATTEND?

- IS Security Officers
- IS Managers
- Risk Managers
- DR & BCP engineers
- Information Systems Owners
- IS Control Assessors

COURSE OVERVIEW

When a business is hit by a natural disaster, cyber crime or any other disruptive tragedy, how should the organization react? What if the network infrastructure is taken down? Will the business be able to continue operations? How much will it cost if the business is down during repairs?

The answer is found in the vendor neutral **Certified Disaster Recovery Engineer**certification course. Disaster recovery and business continuity planning is the process of having a professional work with a business to prepare processes, policies and procedures to follow in the event of a disruption. The goal is to keep a business' critical operations running, which today relies heavily on its IT infrastructure.

The comprehensive **CertifiedDisaster Recovery Engineer** course goes beyond traditional BCP training - preparing students for industry certification in Business Continuity planning, and presenting the latest methodologies and best practices for real-world systems recovery. Students will receive a solid foundation of instruction that will enable them to create meaningful business continuity plans.

This course offers up-to-date information that has been developed by leading risk management professionals.

DR & BCP Career

C)SS CERTIFIED SECURITY SENTINEL

C)ISSO Certified Information Systems Security Officer

C)DRE DISASTER RECOVERY ENGINEER *

All combos include:

- Online Video
- Electronic Book (Workbook/Lab guide*)

  *in alltechnicalclasses only
- ExamPrepQuestions
- Exam

NATIONAL INITIATIVE FOR CYBERSECURITY CAREERS AND STUDIES

Information Assurance Training

OFFICIAL COURSE OUTLINE

www.mile2.com

KEY DATA

The**Certified Disaster Recovery Engineer** is accredited by the NSA'sCNSSI-4016 National Information Assurance Training Standards for Risk Analysis

is **ACCREDITED** by the **NSA CNSS 4011-4016**
Is **MAPPED** to NIST/Homeland Security NICCS's Cyber Security Workforce Framework
is **APPROVED** on the **FBI Cyber Security Certification Requirement list (Tier 1-3)**

UPON COMPLETION

Upon completion, **Certified Disaster Recovery Engineer** students will be able to establish industry acceptable DR & BCP standards with current best practices and policies. Students will also be prepared to competently take the C)DRE exam.

EXAM INFORMATION

The **Certified Disaster Recovery Engineer**exam is taken online through Mile2's Assessment and Certification System ("MACS"), which is accessible on your mile2.com account. The exam will take 2 hours and consist of 100 multiple choice questions. The cost is $400 USD and must be purchased from Mile2.com.

macs Assessment & Certification System

COURSE CONTENT

I. WelcometoDisasterRecoveryTraining
II. BusinessImpactAnalysis
III. RiskAnalysis
IV. Design&Development Phase(BCPStrategies)
V. IT RecoveryStrategies
VI. ImplementationPhase
VII. TestingandExercise
VIII. Maintenanceand Updating
IX. Pandemics
X. CaseStudiesand Templates

DETAILED MODULE DESCRIPTION

Module1-WelcometoDisasterRecoveryTraining

mile2 Brochure
CDRE Agenda
CDRE Agenda
The CDRE Exam
Introduction to
Business Continuity Planning
What is a Disaster?
What is a Critical
Business Function?
Business
Continuity Planning (BCP)
Importance of BCP
Importance of BCP
Disaster Recovery Planning (DRP)
Emergency Response
BC/DR Trends
Purpose of BC/DR Program
Challenges to Effective BCP
BCP Planning Phases
BCP Planning Phases
Where does Project Initiation
fit into the Process?
Project Initiation Phase
BC/DR Program Life Cycle
Summary

Module2–BusinessImpactAnalysis

BCP Planning Model
BCP Planning Phases
Where does BIA
fit into the Process?
What is a BIA?
BIA Scope, Goal, and Objectives
BIA Terminology
Maximum Tolerable Downtime
Recovery Time Objective
Recovery Time Examples
Recovery Point Objective
BIA Process- Disaster Mode Staffing
BIA Process - Capacity & Performance
Objectives
BIA – Getting Started
BIA Tools
Kick off Meeting
Preparing for
the BIA Interviews
Conducting the Interviews
BIA
Notes on Data Collection
Identify Dependencies
Finalize Data Analysis
BIA Report
Presentation to
Senior Management
Summary

Module 3-RiskAnalysis

BCP Planning Model
BCP Planning Phases
Where does the Risk Analysis
fit into the Process?
Functional Requirements
Threats to Business Process
Causes of Unplanned Downtime *
Risk Examples
Risk Analysis Terminology
Risk Analysis Terminology
Risk Analysis Activities
Exposure Inventory
Business Process Inventory
Business Process Documentation
Statement of Risk
ALE Annualized Loss Expectancy
Statement of Risk
Risk Control Definition
Identifying Existing Controls
Physical Controls
Risk Analysis
Risk Analysis
Risk Assessment Report
Compiling a Risk Assessment Report
Risk Analysis Summary

Module4-Design&Development Phase(BCPStrategies)

BCP Planning Model
BCP Planning Phases
Where does BCP Strategies
fit into the Process?
Strategy Process
BCP Strategies
Summary
BCP Planning Phases
Where does BIA fit into the Process?
Design & Development Phase
BCP Design
Emergency Response & Operations
Emergency Response Components
Develop ER Procedures
ER Sources for Assistance
BCP Design
BCP Design
Alternate Recovery Site
Selecting Vendors
for DR/BC Services
Site Recovery & Resumption
Restoration of Primary Site
Return to Primary Site
Continuity Strategy - Insurance
Evaluate Insurance Terms
Summary

Module 5-IT RecoveryStrategies

BCP Planning Model
BCP Planning Phases
Where does IT Strategy
fit into the Process?
IT Recovery Strategy Process
IT Recovery Strategies
Examples of IT Recovery
Tape Backups
Tape Vault Facilities
Disk Backups
DIY Disk Backups
Backup Appliance
Data Archiving
Systems Replication
SAN Replication
Virtual Server Replication
Application Redundancy
Voice & Networking Strategies
Alternate Recovery Sites
Alternate Recovery Sites
Internal or Vendor
BC/DR Services
Selecting Vendors
for BC/DR Services
Evaluating Vendors
of DR/BC Resources
Critical Factors
IT Recovery
Strategies Assessment
IT Recovery Strategies
Summary
BCP Planning Phases
Where does IT
Strategy fit into the Process?
DR Plan Development
DR Plan Design
Summary

Module 6-ImplementationPhase

BCP Planning Model
BCP Planning Phases
Where does Implementation
fit into the Process?
Implementation of BCP
Responsibility for
BCP Implementation
Determine Cost Estimates
Management Approval
and Funding
Install & Configure
Detailed Documentation
Implement Operational Changes
Procure Facilities & Services
BCP Planning Phases
Where does Awareness & Training
fit into the Process?
Awareness & Training
Summary

Module 7-TestingandExercise

BCP Planning Model
BCP Planning Phases
Where does Testing and Drills fit into the
Process?
Testing & Exercise Phase

Testing & Drills
Progression of Testing Types
Testing Participants
Test Script Example
Testing Post-Mortem
Summary

Module8-Maintenanceand Updating

BCP Planning Model
BCP Planning Phases
Where does Maintenance
fit into the Process?
Maintenance
Policies and Procedures
Plan Maintenance
Maintenance & Schedule Budgets
Software Tools for Maintenance
Input Criteria
for Plan Maintenance
Plan Distribution & Security
Summary

Module 9-Pandemics

What is a Pandemic?
Pandemic Frequency
Quick Facts
Effects on Business
Who Should Plan for
Pandemic Influenza?
Develop a Disaster Plan
Develop a Disaster Plan
Planning Checklist
Communications
HR Travel Policies
Physical Resources
Contamination
Pandemics – Work from Home
Pandemics

Module10–CaseStudiesand Templates

Hospital Case Study
Pharmacy Case Study
BIA Worksheet
Inventory Worksheet
BCP Master Document