

## Description:

A Certified Disaster Recovery Engineer, C)DRE, is the superhero of an information System! When a business is hit by a natural disaster, cybercrime 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 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 C)DRE prepares students to plan and present the latest methodologies and best practices for real-world system recovery.



**Annual Salary Potential \$84,000 AVG/year**

### Key Course Information

**Live Class Duration:** 4 Days

**CEUs:** 32

**Language:** English

**Class Formats Available:**

Instructor Led

Self-Study

Live Virtual Training

**Suggested Prerequisites:**

- 12 Months in Information Systems

- 12 Months in Information Systems Management

- Mile2's C)ISSO Course

### Modules/Lessons

**Module 1** – Welcome

**Module 2** – Business Impact Analysis

**Module 3** – Risk Analysis

**Module 4** – Design & Development Phase

**Module 5** – IT Recovery Strategies

**Module 6** – Implementation Phase

**Module 7** – Testing and Exercise

**Module 8** – Maintenance and Updating

**Module 9** – Pandemics

**Module 10** – Case Studies and Templates

### Who Should Attend

- IS Security Officers
- IS Managers
- Risk Managers
- DR and BCP Engineers
- Info Systems Owners
- IS Control Assessors
- System Managers
- Government workers

### Accreditations



## 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 CJDRE exam.

## Exam Information

The Certified Disaster Recovery Engineer exam is taken online through Mile2's Learning Management System and is accessible on your Mile2.com account. The exam will take approximately 2 hours and consist of 100 multiple choice questions.

A minimum grade of 70% is required for certification.

## Re-Certification Requirements

All Mile2 certifications will be awarded a 3-year expiration date.

There are two requirements to maintain Mile2 certification:

- 1) Pass the most current version of the exam for your respective existing certification
- 2) Earn and submit 20 CEUs per year in your Mile2 account.

## Course FAQ's

**Question:** Do I have to purchase a course to buy a certification exam?

Answer: No

**Question:** Do all Mile2 courses map to a role-based career path?

Answer: Yes. You can find the career path and other courses associated with it at [www.mile2.com](http://www.mile2.com).

**Question:** Are all courses available as self-study courses?

Answer: Yes. There is however 1 exception. The Red Team vs Blue Team course is only available as a live class.

**Question:** Are Mile2 courses transferable/shareable?

Answer: No. The course materials, videos, and exams are not meant to be shared or transferred.

## Course and Certification Learning Options



## Detailed Outline:

### Course Introduction

#### Module 1 – Computer Forensics Incidents

1. CDRE Agenda
2. The CDRE Exam
3. Introduction to Business Continuity Planning
4. What is a Disaster?
5. What is a Critical Business Function?
6. Business Continuity Planning (BCP)
7. Importance of BCP
8. Disaster Recovery Planning (DRP)
9. Emergency Response
10. BC/DR Trends
11. Purpose of BC/DR Program
12. Challenges to Effective BCP
13. BCP Planning Phases
14. Where does Project Initiation fit into the Process?
15. Project Initiation Phase
16. BC/DR Program Life Cycle
17. Summary

#### Module 2 – Business Impact Analysis

1. Where does BIA fit into the Process?
2. What is a BIA?
3. BIA Scope, Goal, and Objectives
4. BIA Terminology
5. Maximum Tolerable Downtime
6. Recovery Time Objective
7. Recovery Time Examples
8. Recovery Point Objective
9. BIA Process- Disaster Mode Staffing
10. BIA Process - Capacity & Performance Objectives

11. BIA – Getting Started
12. BIA Tools
13. Kick off Meeting
14. Preparing for the BIA Interviews
15. Conducting the Interviews
16. BIA
17. Notes on Data Collection
18. Identify Dependencies
19. Finalize Data Analysis
20. BIA Report
21. Presentation to Senior Management
22. Summary

## Module 3 – Risk Analysis

1. Where does the Risk Analysis fit into the Process?
2. Functional Requirements
3. Threats to Business Process
4. Causes of Unplanned Downtime \*
5. Risk Examples
6. Risk Analysis Terminology
7. Risk Analysis Activities
8. Exposure Inventory
9. Business Process Inventory
10. Business Process Documentation
11. Statement of Risk
12. ALE Annualized Loss Expectancy
13. Statement of Risk
14. Risk Control Definition
15. Identifying Existing Controls
16. Physical Controls
17. Risk Assessment Report
18. Compiling a Risk Assessment Report
19. Risk Analysis Summary

## Module 4 – Design and Development Phase (BCP Strategies)

1. Where does BCP Strategies fit into the Process?
2. Strategy Process
3. BCP Strategies
4. Summary
5. BCP Planning Phases
6. Where does BIA fit into the Process?
7. Design & Development Phase
8. BCP Design
9. Emergency Response & Operations
10. Emergency Response Components
11. Develop ER Procedures
12. ER Sources for Assistance
13. BCP Design
14. BCP Design
15. Alternate Recovery Site
16. Selecting Vendors for DR/BC Services
17. Site Recovery & Resumption
18. Restoration of Primary Site
19. Return to Primary Site
20. Continuity Strategy - Insurance
21. Evaluate Insurance Terms
22. Summary

## Module 5 – IT Recovery Strategies

1. Where does IT Strategy fit into the Process?
2. IT Recovery Strategy Process
3. IT Recovery Strategies
4. Examples of IT Recovery
5. Tape Backups
6. Tape Vault Facilities
7. Disk Backups
8. DIY Disk Backups
9. Backup Appliance
10. Data Archiving
11. Systems Replication

12. SAN Replication
13. Virtual Server Replication
14. Application Redundancy
15. Voice & Networking Strategies
16. Alternate Recovery Sites
17. Internal or Vendor BC/DR Services
18. Selecting Vendors for BC/DR Services
19. Evaluating Vendors of DR/BC Resources
20. Critical Factors
21. IT Recovery Strategies Assessment
22. BCP Planning Phases
23. Where does IT Strategy fit into the Process?
24. DR Plan Development
25. DR Plan Design

## Module 6 – Implementation Phase

1. Where does Implementation fit into the Process?
2. Implementation of BCP
3. Responsibility for BCP Implementation
4. Determine Cost Estimates
5. Management Approval and Funding
6. Install & Configure
7. Detailed Documentation
8. Implement Operational Changes
9. Procure Facilities & Services
10. BCP Planning Phases
11. Where does Awareness & Training fit into the Process?
12. Awareness & Training

## Module 7 – Testing and Exercise

1. Where does Testing and Drills fit into the Process?
2. Testing & Exercise Phase
3. Testing & Drills
4. Progression of Testing Types
5. Testing Participants
6. Test Script Example
7. Testing Post-Mortem

## Module 8 – Digital Evidence Protocols

1. Where does Maintenance fit into the Process?
2. Maintenance Policies and Procedures
3. Plan Maintenance
4. Maintenance & Schedule Budgets
5. Software Tools for Maintenance
6. Input Criteria for Plan Maintenance
7. Plan Distribution & Security

## Module 9 – Pandemics

1. What is a Pandemic?
2. Pandemic Frequency
3. Quick Facts
4. Effects on Business
5. Who Should Plan for Pandemic Influenza?
6. Develop a Disaster Plan
7. Planning Checklist
8. Communications
9. HR Travel Policies
10. Physical Resources
11. Contamination
12. Pandemics – Work from Home

## Module 10 – Case Studies and Templates

1. Hospital Case Study
2. Pharmacy Case Study
3. BIA Worksheet
4. Inventory Worksheet
5. BCP Master Document