

EC COUNCIL DISASTER RECOVERY PROFESSIONAL (EDRP) v3

EC-Council

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**Disaster
Recovery
Professional**TM

BUSINESS CONTINUITY (BC) AND DISASTER RECOVERY (DR)



- BC - The strategic and tactical capability of the organization to plan for and respond to incidents and business disruptions in order to continue business operations at an acceptable predefined level.

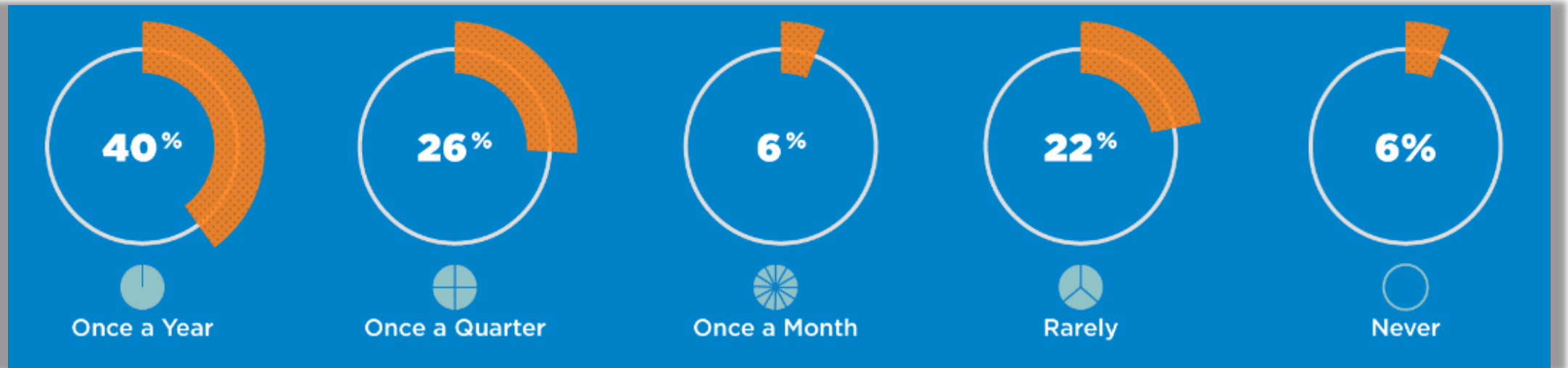


- DR - The process, policies and procedures related to preparing for recovery or continuation of technology infrastructure, systems and applications which are vital to an organization after a disaster or outage.



- An effective BC/DR plan minimizes the impact of a disruptive event (like a natural disaster or a crippling hack), thus keeping at least the critical business functions running even during a disaster.

BC/DR STATISTICS 2016



2 in 5 companies still do not have a documented disaster recovery plan, and only **40%** test their DR plans once a year.

Source (s): <http://invenioit.com/continuity/2016-disaster-recovery-statistics/>
<http://www.zetta.net/resource/state-disaster-recovery-2016>

BC/DR STATISTICS 2016

54% of the organizations have reported that they have experienced a downtime event that lasted more than 8 hours in the past five years.

75% of all downtime is reported to be due to a power outage. Hardware and human errors round up the top three. However, one in three organizations report having been hit by a virus or malware attack.



Source (s): <http://www.zetta.net/resource/state-disaster-recovery-2016>



FEMA

Roughly 40% - 60% of small businesses never reopen their doors following a disaster.

IMMEDIATE

Another 25 percent **fail** within one year according to the Federal Emergency Management Agency (FEMA).

< 1 YEAR



< 3 YEARS

<https://www.fema.gov/media-library/assets/documents/108451>

BUSINESS CONTINUITY (BC) AND DISASTER RECOVERY (DR)

- **Christopher Skroupa:** At the time of a cyber-attack, how do company executives define and protect their most critical assets and put into place a business continuity plan?
- **Brian White:** It is important to note that **at the time of an attack it will already be too late** for a company executive to identify those critical assets. The intruder will have located them and targeted these assets. Once the company identifies the cyber intrusion, each second is critical to effectively responding. With this in mind, it is essential for business executives to conduct a strategic review and analysis of their most vital assets and make investments to create a more resilient enterprise. **It's not about what they should do at the time of an attack, but rather how they implement a response and recovery plan.** The biggest risk a company faces in today's uncertainty of cyber-attacks is not being prepared.

- former Counselor to the Deputy Secretary, U.S. Department of Homeland Security

WannaCry Attack May 2017

The Importance of Business Continuity
and Resilience in a Crisis



WannaCry Attack May 2017: Business Continuity
Is What Will Pull Your Business Through in a
Cyber Attack

Business Continuity is Key to Minimising the Impact of Ransomware Attacks

“Could my organization be hit by a cyber-attack?”

The question on everyone’s minds now is: *“could my organization be hit by a cyberattack?”* Yes: no matter the scale or industry you operate in, your organization is exposed, but there are several precautions you can take to prepare in the event of a crisis like this. Prevention is what makes you resilient.

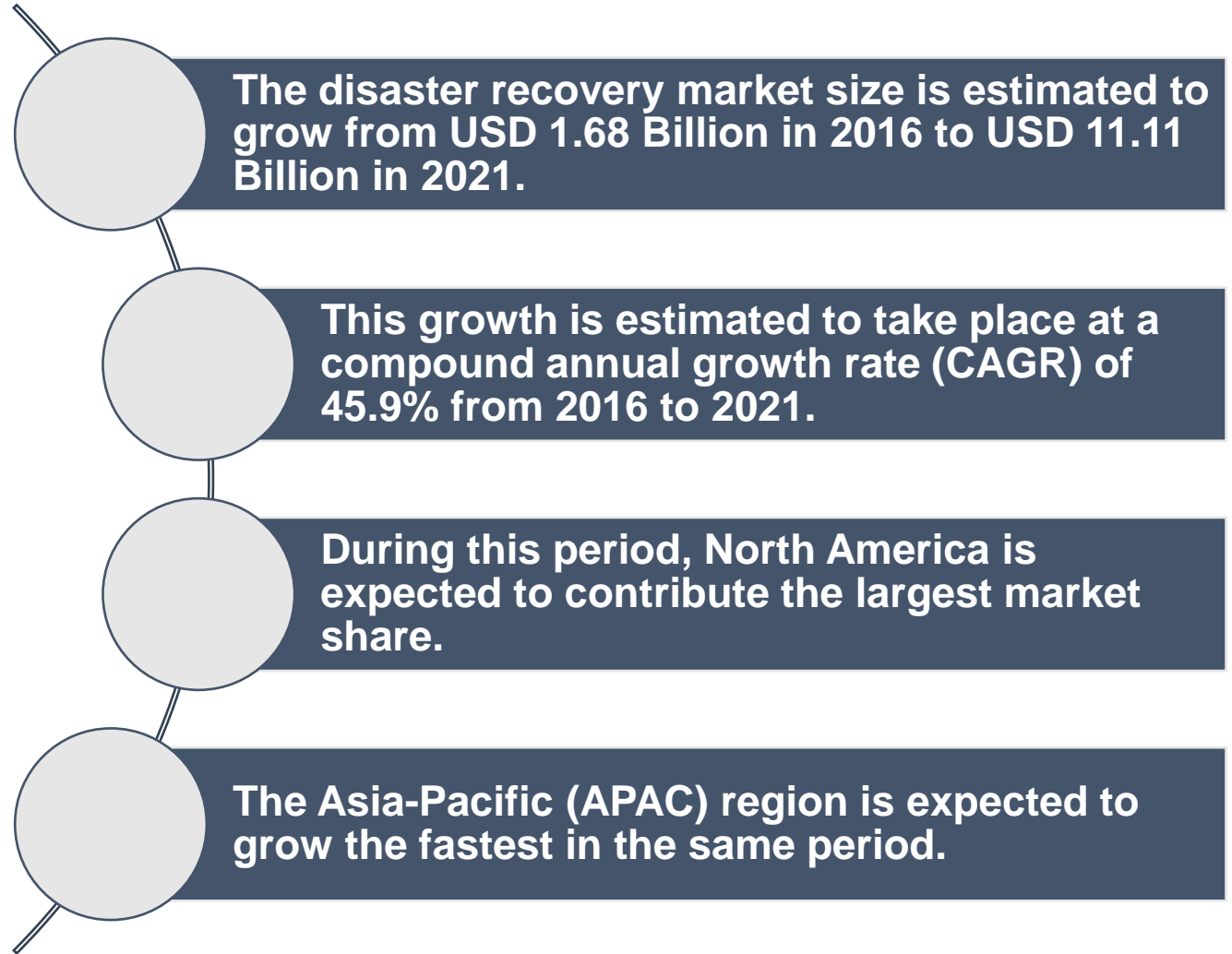
Source (s): <http://www.thebci.org>

COSTS OF FAILURE TO IMPLEMENT BC/DR

- **Business Failure or Loss**
- **Financial Loss**
- **Reputational Risk**
- **Injury and Death**
- **Morale of Customers and Employees**
- **Loss of Productivity**

MARKET PROJECTIONS

The key forces behind the disaster recovery market are its features of greater flexibility, cost-effectiveness, and easy testing. Additionally, DR services provide automation capabilities that lead to limited utilization of resources and low up-front cost.



Source (s): <http://www.marketsandmarkets.com/PressReleases/recovery-as-a-service.asp>

EC-COUNCIL DISASTER RECOVERY PROFESSIONAL v3

EC Council Disaster Recovery Professional (EDRP) is a comprehensive professional course that teaches students how to **develop** enterprise-wide **business continuity** and **disaster recovery plans**



EDRP provides the professionals with a strong **understanding** of **business continuity** and **disaster recovery principles**, including conducting business impact analysis, assessing of risks, developing policies and procedures, and implementing a plan



EDRP teaches professionals how to **secure** data by putting policies and procedures in place, and how to **recover** and **restore** their organization's critical data in the aftermath of a disaster

KEY FEATURES OF EDRPv3

- The program is completely redesigned with the latest job task analysis and market research
- The new curricula now covers both the BC and DR domains
- It is designed and developed collaboratively with experienced SMEs and business continuity/ disaster recovery experts
- A complete vendor neutral course covering business continuity/ disaster recovery techniques and solutions
- Detailed labs for hands-on learning experience
- EDRP covers all the relevant knowledge-bases and skills to meets with regulatory compliance standards such as ISO 31000:2009, ISO 22301:2012, ISO 22313:2012, NFPA 1600, and many more along with the NICE Framework
- The student kit contains large number of white papers for additional reading
- The course includes case studies to effectively complement learning of new concepts
- The program includes BC/DR templates to enhance immediate application by enterprises and professionals
- The program comes with labs or cloud-based virtual labs (optional) enabling students to practice various business continuity/ disaster recovery techniques in a real time and simulated environment

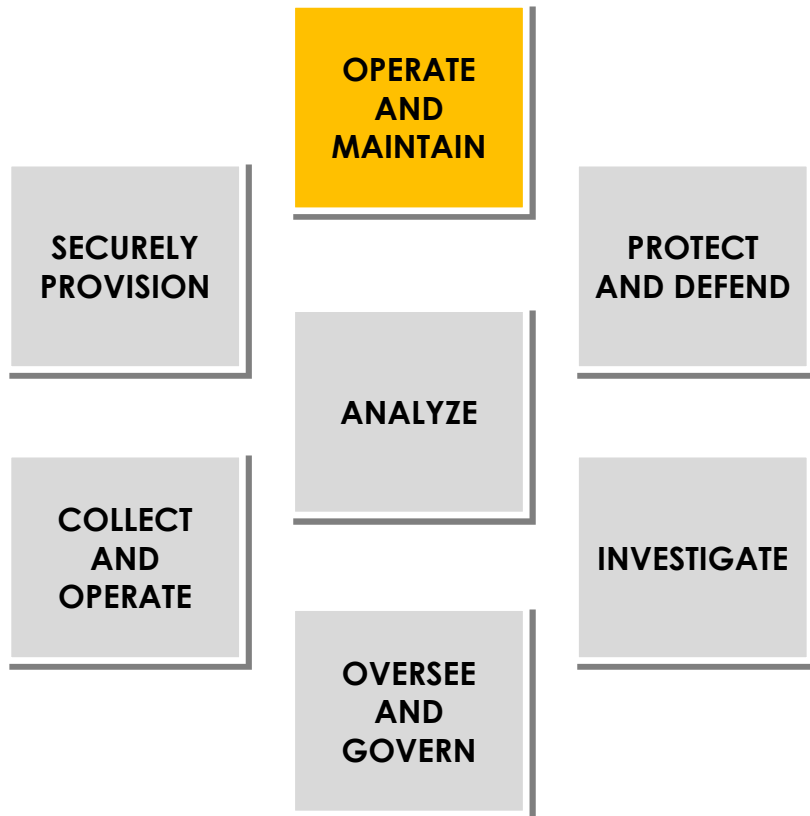
TOP 10 VALUE PROPOSITIONS OF EDRP v3

- This version has a completely updated and redesigned curriculum covering the latest industry gaps, concepts, best practices, trends and technologies.
- EDRPv3 combines BC and DR into a single fluent approach which allows enterprises to gain a holistic view of their requirements.
- It provides focus to BC/DR in an IT environment, as compared to the previous version of EDRP which dealt with generic disaster recovery.
- A completely new set of labs are developed to enable attendees to gain critical experience and skills in BC/DR.
- The program is designed to provide much needed step-by-step guidance to attendees and then tests their knowledge through case studies.

WHAT IS NEW IN EDRPv3

- EDRPv3 addresses gaps in other BC/DR programs by providing helpful templates that are applied to BC/DR efforts in an enterprise.
- The courseware comes complete with reports and white papers sourced from some of the top practitioners of the BC/DR industry.
- Compliant to the United States National Initiative for Cyber Education (NICE)
- Program framework and instructional approach is carefully architected to follow a four-stage BCDR methodology, as practiced by the industry.
- The updated certification exam tests a candidates **knowledge** and **skills** across both the BC and DR domains.

EDRP MAPS TO U.S. NICE FRAMEWORK



Compliant to U.S. National Initiative for Cybersecurity Education (NICE) in the Operate and Maintain domain.

Individuals with this specialty hold following job titles:

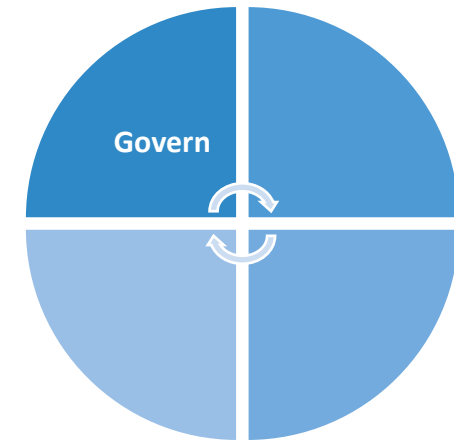
- Disaster Recovery Management (DRM) Lead
- IT Disaster Recovery/ Business Continuity Analyst
- IT Disaster Recovery/ Business Continuity Analyst
- Business Continuity/Disaster Recovery Consultant
- Contingency Planning / Disaster Recovery Specialist
- Senior Disaster Recovery and Systems Engineer
- Business Continuity Manager

COURSE OUTLINE

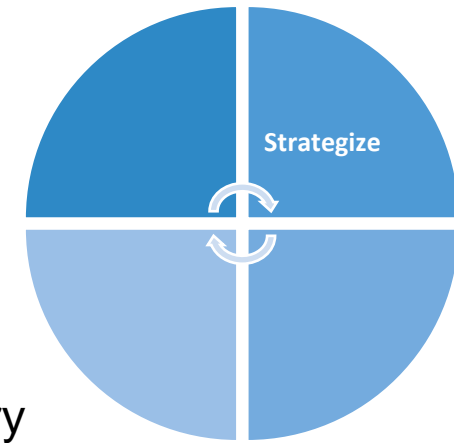
- 1 Introduction to Disaster Recovery and Business Continuity
- 2 Business Continuity Management
- 3 Risk Assessment
- 4 Business Impact Analysis
- 5 Business Continuity Plan

Key Takeaways:

- ✓ Design a BCM framework
- ✓ Create a risk assessment report
- ✓ Create a BIA report
- ✓ Create a business continuity strategy



COURSE OUTLINE



6

Data Backup

7

Data Recovery
Strategies

8

Virtualization Based
Disaster Recovery

Key Takeaways:

- ✓ Apply the concept of Disk-to-Disk-to-Disaster Recovery (3DR)
- ✓ Implement the various infrastructure technologies used in data recovery
- ✓ Apply virtualization in disaster recovery
- ✓ Implement the various virtualization techniques
- ✓ Create a backup of virtual machines running on VMware and Hyper-V

COURSE OUTLINE

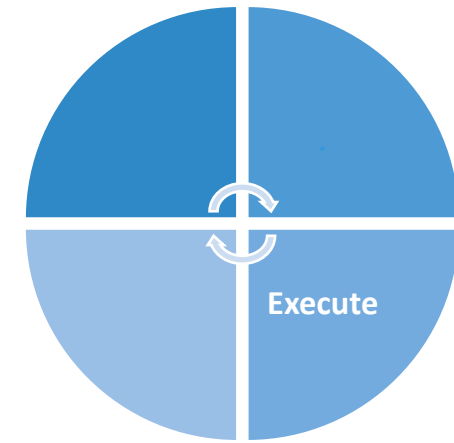
9 System Recovery

10 Centralized & De-Centralized Computing

11 Disaster Recovery Planning Process

Key Takeaways:

- ✓ Implement system recovery in several operating systems (Windows 10, Linux, and Mac)
- ✓ Demonstrate the recovery of various servers running on different OSs
- ✓ Apply centralized and decentralized computing architecture
- ✓ Implement PASIS architecture
- ✓ Implement key disaster recovery documentation activities



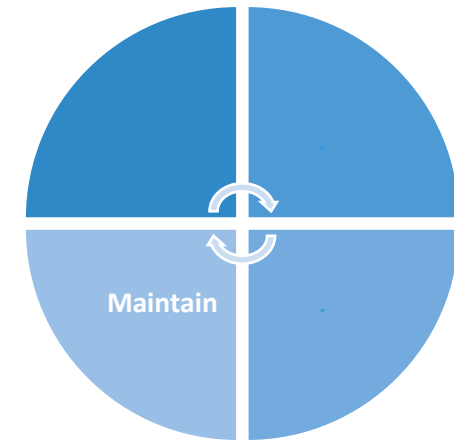
COURSE OUTLINE

12

BCP Testing,
Maintenance & Training

Key Takeaways:

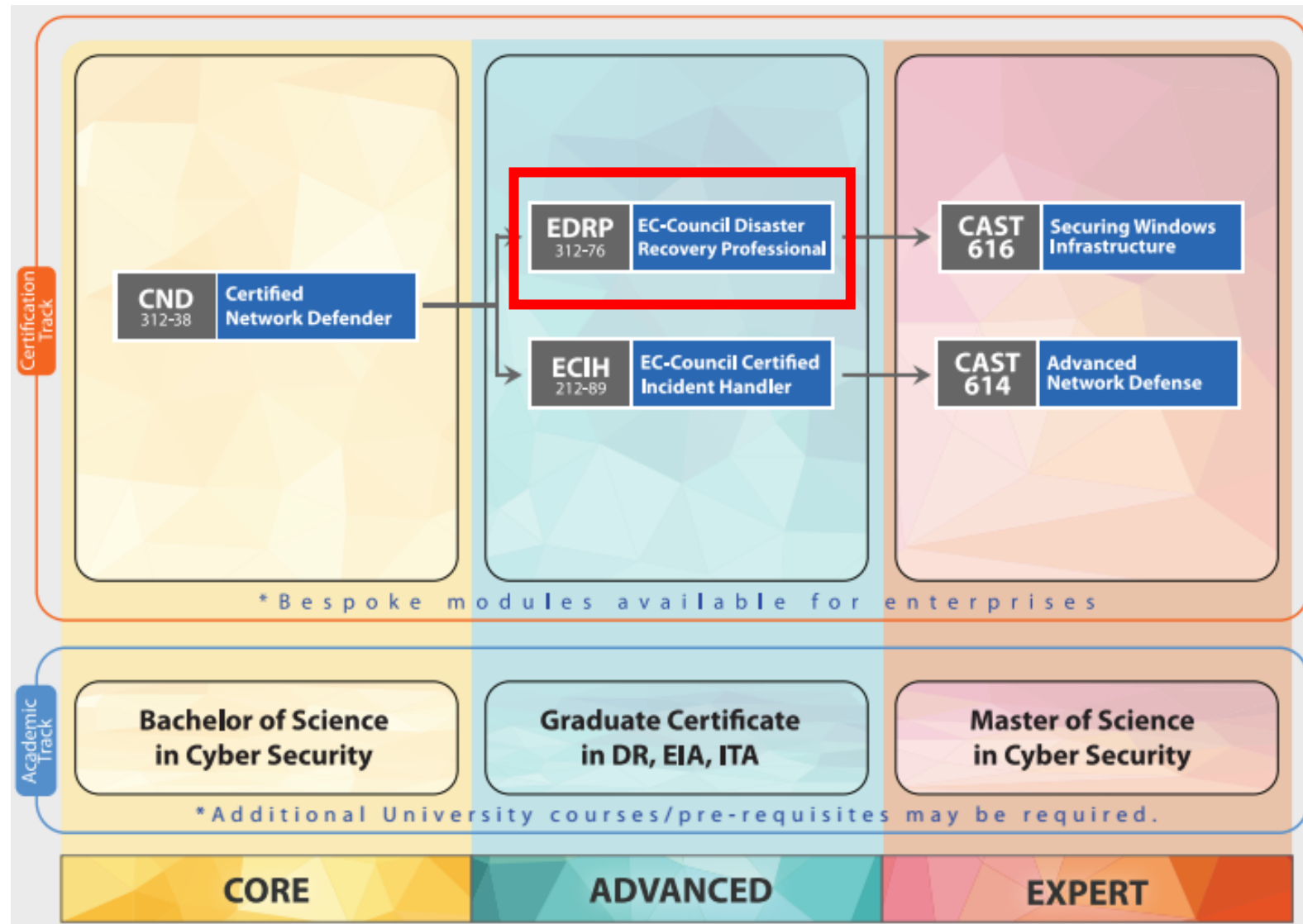
- ✓ Execute disaster recovery testing
- ✓ Implement the various BCP testing methods
- ✓ Implement BCP training



EDRP LABS/CASE STUDIES

- EDRP comes with a complete hands-on approach to all the latest trends and techniques of BC/DR
- There are a total of 18 labs that give the candidates a taste of getting their hands dirty with the latest BC/DR techniques.
- Apart from the labs, the courseware comes with a lot of case studies for the analysis phase which teach the candidates how to prepare critical artefacts like the risk assessment report and the business impact analysis report.
- These case studies are unique to EDRP as most BC/DR courses in the market just talk about these reports theoretically. A BC/DR professional must know how to create these reports to get started on any project.

WHERE DOES EDRP FIT IN EC-COUNCIL CERTIFICATION TRACK?



PROGRAM DETAILS

RECOMMENDED:

The EDRP course will give participants the necessary skills to develop enterprise-wide business continuity and disaster recovery plans

Recommended : Some experience in the IT BC/DR domain

Duration: 5 days (40 hours)

EXAM DETAILS:

- Number of Questions: 150
- Passing Score: 70%
- Test Duration: 4 hours
- Test Format: MCQ
- Test Delivery: ECC Exam Portal

WHO SHOULD ATTEND:

- IT Professionals some work experience in the BC/DR or System Administration domain
- Business Continuity and Disaster Recovery consultants
- Individuals wanting to establish themselves in the field of IT Business Continuity and Disaster Recovery
- Risks Consultants or Managers
- IT Directors, CISOs

Enterprise Conversations

- **Business Failure or Loss**
- **Financial Loss**
- **Reputational Risk**
- **Injury and Death**
- **Morale of Customers and Employees**
- **Loss of Productivity**

Enterprise Conversations

- ROI for BCP
 - Its more expensive to prevent than to repair
 - Initial costs for BCP spreads over an infinite period of time
- Not just financial ROI but impact on:
 - Investor relations
 - Regulatory requirements
 - Customer satisfaction and loyalty
- Reduce business risks and liabilities
- Maintain operational capability and uptime

Thank You