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**Course Name**

# **Advanced Data Security: Encryption, Masking, and Enterprise Data Protection**

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**Sector Name**

Digital Transformation and Innovation

**Document Type**

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Course Introduction

Data breaches and cyber threats are among the most critical risks facing modern organizations. Protecting sensitive information requires advanced techniques, including encryption, data masking, tokenization, anonymization, and robust access control.

**This course** provides a deep dive into these technologies, helping participants design, implement, and maintain secure enterprise data environments.

Participants will learn to secure data across cloud, on-premise, and hybrid systems while ensuring compliance with global regulations such as GDPR, PDPL, and HIPAA. Emphasis is placed on practical implementation, integrating security into business processes, and creating sustainable data protection frameworks.

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Target Audience

- ✓ Cybersecurity Professionals
- ✓ Information Security Officers and Analysts
- ✓ Data Security Engineers
- ✓ Database Administrators (DBAs)

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Learning Objectives

- ✓ Implement advanced encryption strategies for data at rest, in transit, and in use.
- ✓ Apply dynamic and static data masking, tokenization, and anonymization techniques.
- ✓ Design enterprise-wide data protection frameworks for cloud, on-premise, and hybrid environments.
- ✓ Manage identity, access, auditing, and compliance to secure sensitive information.
- ✓ Integrate security practices into data pipelines, analytics workflows, and organizational processes.

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Course Outline

#### ✓ DAY 01

##### **Foundations of Data Security and Risk Management**

- ✓ Advanced data security concepts and threat modeling
- ✓ Regulatory and compliance requirements (GDPR, PDPL, HIPAA, SOCPA)
- ✓ Risk assessment for sensitive data assets
- ✓ Data classification and sensitivity labeling
- ✓ Governance, policies, and organizational responsibilities for security

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### Course Outline

#### ✓ Day 02

##### **Encryption Techniques and Implementation**

- ✓ Symmetric, asymmetric, and hybrid encryption algorithms
- ✓ Public Key Infrastructure (PKI) and certificate management
- ✓ Database and file-level encryption best practices
- ✓ End-to-end encryption for applications and messaging systems
- ✓ Key lifecycle management: creation, rotation, and revocation

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Course Outline

#### ✓ Day 03

##### **Data Masking, Tokenization, and Anonymization**

- ✓ Static vs. dynamic data masking for development and testing environments
- ✓ Tokenization and pseudonymization strategies for sensitive data
- ✓ Anonymization techniques for analytics and reporting
- ✓ Hands-on implementation of masking and tokenization tools
- ✓ Mitigating risks of re-identification and data leaks

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Course Outline

#### ✓ Day 04

##### **Identity, Access Control, and Monitoring**

- ✓ Role-based, attribute-based, and context-aware access controls (RBAC, ABAC, PBAC)
- ✓ Authentication and authorization best practices
- ✓ Privileged access management and least privilege principle
- ✓ Monitoring, logging, and auditing access to sensitive data
- ✓ Alerting, anomaly detection, and incident response workflows

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Course Outline

#### ✓ Day 05

##### **Enterprise Data Protection Strategies and Compliance**

- ✓ Designing a comprehensive enterprise data security framework
- ✓ Data security in cloud, hybrid, and multi-cloud environments
- ✓ Secure integration of analytics, BI, and machine learning pipelines
- ✓ Continuous monitoring, auditing, and reporting for compliance
- ✓ Real-world case studies: breach prevention, encryption deployment, and masking strategies

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## Advanced Data Security: Encryption, Masking, and Enterprise Data Protection

### Confirmed Sessions

| FROM           | TO            | DURATION | FEES       | LOCATION         |
|----------------|---------------|----------|------------|------------------|
| March 29, 2027 | April 2, 2027 | 5 days   | 4250.00 \$ | UAE , Dubai      |
| May 23, 2027   | May 27, 2027  | 5 days   | 4250.00 \$ | KSA , Riyadh     |
| Nov. 1, 2026   | Nov. 5, 2026  | 5 days   | 2150.00 \$ | Virtual , Online |
| Aug. 16, 2027  | Aug. 20, 2027 | 5 days   | 4950.00 \$ | Greece , Athens  |

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