London TDM

Information Technology and Digital Transformation Training Courses

Course Venue: United Kingdom - London

Course Date: From 25 January 2026 To 29 January 2026

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

The "IT Security Architecture and Design" course is designed to equip IT professionals with the knowledge and skills needed to design robust security architectures and implement comprehensive IT security measures. This five-day course delves into critical aspects of security architecture, risk management, and the use of best practices and industry standards to protect an organization's IT infrastructure from evolving threats.

Objectives

- Understand the fundamental concepts of IT security architecture and design.
- Learn how to assess and manage IT security risks effectively.
- Explore various security models and frameworks used in the industry.
- Master the design of secure network and system architectures.
- Develop skills to evaluate and choose appropriate security solutions.

Course Outlines

Day 1: Introduction to IT Security Architecture

- Overview of IT Security Architecture
- Key Principles and Concepts
- Understanding Threats, Vulnerabilities, and Risks
- Introduction to Security Frameworks
- Case Studies of Security Breaches

Day 2: Risk Management and Assessment

- Introduction to Risk Management
- Conducting Risk Assessments
- Identifying and Prioritizing Threats
- Developing Risk Mitigation Strategies
- Using Tools for Risk Management

Day 3: Security Models and Frameworks

- Overview of Security Models
- Discussion on Common Security Frameworks
- Implementing Defense in Depth
- Access Control Models: DAC, MAC, and RBAC
- Comparing and Contrasting Frameworks

Day 4: Designing Secure Network and System Architectures

- Principles of Secure Network Design
- Architecture of Secure Systems
- Role of Firewalls and Intrusion Detection Systems
- Securing Cloud Environments
- Best Practices for Systems Design

Day 5: Evaluation and Implementation of Security Solutions

- Criteria for Evaluating Security Solutions
- Selection of Appropriate Technologies
- Implementation Strategy and Planning
- Monitoring and Maintaining Security Posture
- Emerging Trends and Technologies in IT Security