



Consulting and Training | Reach New Heights

Course Name

Data-Driven Decision Making for Strategic Execution in Engineering

Sector Name

Digital Transformation and Innovation

Document Type

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Data-Driven Decision Making for Strategic Execution in Engineering

Course Introduction

This course focuses on leveraging data analytics and insights to enhance strategy execution in engineering and operations. It provides managers with advanced knowledge and skills to use data effectively in decision-making, performance tracking, and continuous improvement of strategic initiatives.

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Data-Driven Decision Making for Strategic Execution in Engineering

Target Audience

- ✓ Engineering Managers
- ✓ Data Analysts
- ✓ Business Analysts
- ✓ Operations Managers
- ✓ Project Managers
- ✓ Product Managers
- ✓ Program Managers
- ✓ Strategic Planners

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Learning Objectives

- ✓ Understand the role of data in strategic decision-making and execution
- ✓ Develop skills to implement data-driven performance management systems
- ✓ Learn to use analytics for tracking and improving strategy execution
- ✓ Gain insights into predictive analytics for proactive strategy management
- ✓ Master techniques for fostering a data-driven culture in engineering and operations

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Course Outline

✓ Day 01

Foundations of Data-Driven Strategy Execution

- ✓ The role of data in strategy execution
- ✓ Key performance indicators for engineering and operations
- ✓ Data collection and management in technical environments
- ✓ Case study: Successful data-driven strategy execution in operations

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Course Outline

✓ Day 02

Implementing Data-Driven Performance Management

- ✓ Designing dashboards and scorecards for strategy tracking
- ✓ Real-time performance monitoring in engineering projects
- ✓ Using data visualization for effective communication

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Course Outline

✓ Day 03

Advanced Analytics for Strategy Optimization

- ✓ Predictive analytics in engineering and operations
- ✓ Using machine learning for process optimization
- ✓ Big data analytics in complex engineering environments
- ✓ Hands-on exercise: Applying analytics to a strategic initiative

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Course Outline

✓ Day 04

Data-Driven Decision Making in Operations

- ✓ Framework for data-driven decision making
- ✓ Overcoming cognitive biases in technical decision-making
- ✓ Scenario planning and simulation in strategy execution
- ✓ Group discussion: Addressing challenges in data-driven operations

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Course Outline

✓ Day 05

Building a Data-Driven Culture

- ✓ Fostering data literacy in engineering teams
- ✓ Change management for implementing data-driven practices
- ✓ Ethical considerations in data-driven decision making

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 27, 2026	July 31, 2026	5 days	4250.00 \$	UAE , Dubai
May 4, 2026	May 8, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Nov. 2, 2026	Nov. 6, 2026	5 days	5950.00 \$	USA , Texas
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Riyadh

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