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**Course Name**

# Data-Driven Decision Making in Engineering for Managers

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**Sector Name**

Digital Transformation and Innovation

**Document Type**

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## Data-Driven Decision Making in Engineering for Managers

### Course Introduction

**This intensive 5-day course** is tailored for engineering managers and senior professionals who want to leverage data analytics to enhance decision-making processes in engineering contexts. The course covers fundamental concepts of data analysis, advanced analytical techniques, data visualization, predictive modeling, and the implementation of data-driven strategies in engineering operations. Participants will learn how to effectively use data to inform strategic decisions, optimize processes, and drive innovation in engineering projects and operations.

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## Data-Driven Decision Making in Engineering for Managers

### Target Audience

- ✓ Engineering Managers & Directors – Leading teams and making strategic decisions.
- ✓ Project & Operations Managers – Optimizing processes using data insights.
- ✓ Quality & Process Improvement Leaders – Applying data for performance enhancement.
- ✓ R&D and Product Development Managers – Using data to drive innovation.
- ✓ Supply Chain & Manufacturing Managers – Enhancing efficiency and reducing risks with data.

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## Data-Driven Decision Making in Engineering for Managers

### Learning Objectives

- ✓ Understand the importance and potential of data-driven decision-making in engineering
- ✓ Develop skills in data collection, analysis, and interpretation for engineering applications
- ✓ Learn advanced analytical techniques and their application in engineering contexts
- ✓ Master data visualization techniques for effective communication of insights
- ✓ Understand predictive modeling and its use in engineering decision-making
- ✓ Learn how to implement data-driven strategies in engineering operations
- ✓ Develop skills in leading data-driven culture change in engineering organizations

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## Data-Driven Decision Making in Engineering for Managers

### Course Outline

#### ✓ **01 DAY ONE**

##### **Foundations of Data-Driven Decision Making in Engineering**

- ✓ Understand the role of data in engineering decision-making
- ✓ Learn the fundamentals of data analysis and statistics for engineering
- ✓ Recognize the potential and limitations of data-driven approaches
- ✓ Introduction to Data-Driven Decision Making in Engineering
- ✓ The Data-Driven Decision-Making Process
- ✓ Basic Statistical Concepts for Engineering Managers
- ✓ Data Collection and Quality Assurance in Engineering Contexts
- ✓ Ethical Considerations in Data-Driven Decision Making

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### Course Outline

#### ✓ 02 DAY TWO

##### **Advanced Data Analysis Techniques for Engineering**

- ✓ Learn advanced data analysis techniques relevant to engineering
- ✓ Understand how to apply these techniques to real-world engineering problems
- ✓ Develop skills in interpreting complex analytical results
- ✓ Exploratory Data Analysis in Engineering
- ✓ Regression Analysis and Its Applications in Engineering
- ✓ Time Series Analysis for Engineering Data
- ✓ Machine Learning Techniques for Engineering Applications
- ✓ Case Studies: Applying Advanced Analytics in Engineering Decisions

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### Course Outline

#### ✓ **03 DAY THREE**

##### **Data Visualization and Communication for Engineering Managers**

- ✓ Master data visualization techniques for engineering data
- ✓ Learn how to effectively communicate data insights to various stakeholders
- ✓ Understand the role of data storytelling in engineering contexts
- ✓ Principles of Effective Data Visualization
- ✓ Tools and Techniques for Engineering Data Visualization
- ✓ Creating Dashboards for Engineering KPIs
- ✓ Data Storytelling for Engineering Managers
- ✓ Communicating Technical Data to Non-Technical Audiences
- ✓ Hands-on Workshop: Creating Impactful Engineering Data Visualizations

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### Course Outline

#### ✓ **04 DAY FOUR**

##### **Predictive Modeling and Simulation in Engineering**

- ✓ Understand the principles of predictive modeling in engineering
- ✓ Learn how to use simulations for decision support in engineering projects
- ✓ Develop skills in interpreting and applying predictive models
- ✓ Introduction to Predictive Modeling in Engineering
- ✓ Types of Predictive Models Relevant to Engineering
- ✓ Simulation Techniques for Engineering Decision Support
- ✓ Model Validation and Performance Evaluation
- ✓ Integrating Predictive Models into Engineering Processes
- ✓ Case Studies: Successful Applications of Predictive Modeling in Engineering

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### Course Outline

#### ✓ 05 DAY FIVE

##### **Implementing Data-Driven Strategies in Engineering Operations**

- ✓ Learn how to develop and implement data-driven strategies in engineering operations
- ✓ Understand change management principles for fostering a data-driven culture
- ✓ Develop an action plan for implementing data-driven decision-making in your organization
- ✓ Developing a Data Strategy for Engineering Operations
- ✓ Infrastructure and Tools for Data-Driven Engineering
- ✓ Building and Leading Data-Driven Engineering Teams
- ✓ Overcoming Barriers to Data-Driven Decision Making
- ✓ Measuring the Impact of Data-Driven Decisions in Engineering
- ✓ Future Trends in Data Analytics for Engineering
- ✓ Course Review and Action Planning Workshop

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## Data-Driven Decision Making in Engineering for Managers

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 22, 2026	Nov. 26, 2026	5 days	4250.00 \$	KSA , Riyadh
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Oct. 5, 2026	Oct. 9, 2026	5 days	5950.00 \$	Switzerland , Zurich
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai

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