Management And Leadership

Data-driven Decision Making

Course Introduction

This training course is designed to provide participants a comprehensive exploration of how data can be utilized to inform and improve decision-making processes within organizations. Over the span of three days, participants will delve into foundational concepts such as data collection, preprocessing, and analysis, as well as advanced techniques including statistical analysis and predictive modeling. Through a combination of theoretical learning, practical exercises, and real-world case studies, participants will gain the knowledge and skills needed to harness the power of data to make informed, evidence-based decisions that drive organizational success. By the end of the program, participants will be equipped with the tools and mindset necessary to lead data-driven initiatives and drive positive outcomes within their organizations.

Target Audience

This course is designed for professionals across various industries who aspire to enhance their decision-making capabilities through data-driven approaches, including managers, analysts, and decision-makers at all levels.

Learning Objectives

At the end of this training course, participants will be able to:

- Gain foundational knowledge and skills necessary to leverage data effectively for decision making.
- Enhance ability to collect, preprocess, and analyze data to extract valuable insights.
- Develop proficiency in using statistical techniques and tools to inform decision making.
- Foster a data-driven mindset to integrate data into decision-making processes effectively.
- Make informed, evidence-based decisions that drive organizational success

Course Outline

- **01 Day One**

   Foundations of Data-Driven Decision Making

   - Introduction to data-driven decision making: Importance, benefits, and challenges.
   - Understanding data sources and types: Internal vs. external data, structured vs. unstructured data.
   - Data collection and preprocessing: Techniques for data collection, cleaning, and preparation.
   - Introduction to descriptive statistics: Measures of central tendency, dispersion, and graphical representations.
   - Practical exercise: Collecting and preprocessing data, performing descriptive statistical analysis.

- **02 Day Two**

   Data Analysis Techniques

   - Exploratory data analysis (EDA): Techniques for exploring and visualizing data distributions, relationships, and patterns.
   - Inferential statistics: Hypothesis testing, confidence intervals, and significance testing.
   - Introduction to regression analysis: Understanding linear regression and its applications.
   - Practical exercise: Performing EDA, conducting hypothesis tests, and building simple regression models on a dataset.

• **03 Day Three**

Implementing Data-Driven Decision Making

  ◦ Introduction to decision-making frameworks: Identifying decision criteria, evaluating alternatives, and making informed decisions.

• **04 Day Four**

Integrating data into decision-making processes: Using data to inform decision criteria, assess risks, and evaluate outcomes.

  ◦ Building data-driven decision-making culture: Strategies for promoting data literacy and fostering a culture of evidence-based decision making.

• **05 Day Five**

Case studies and real-world examples: Analyzing successful data-driven decision-making initiatives and their impact on organizations.

  ◦ Group project: Applying data-driven decision-making principles to a real-world scenario and presenting findings to peers.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 7, 2025	July 11, 2025	5 days	4250.00 $	UAE - Abu Dhabi
Dec. 15, 2025	Dec. 19, 2025	5 days	5950.00 $	USA - Los Angeles
April 28, 2025	May 2, 2025	5 days	4250.00 $	UAE - Dubai