



Management And Leadership

Leveraging Big Data in R&D Decision

Making

Course Introduction

This course focuses on harnessing the power of big data to enhance decision-making processes in R&D. It covers big data technologies, analytical methods, and strategies for integrating big data insights into R&D operations and strategic planning.

Target Audience

- R&D Managers and Directors
- Innovation Managers
- Product Development Managers
- Chief Technology Officers (CTOs)
- Strategy and Planning Professionals
- Business Development Managers
- Engineering Managers
- Senior Executives overseeing R&D-business integration

Learning Objectives

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

- Identify the potential of big data in R&D contexts
- Learn to identify and utilize relevant big data sources for R&D
- Develop skills in big data analytics and interpretation
- Enhance decision-making processes using big data insights
- Gain knowledge of big data technologies and infrastructures for R&D

Course Outline

• 01 Day One

Big Data Fundamentals for R&D

- Introduction to big data in R&D contexts
- Big data sources relevant to R&D (internal, external, structured, unstructured)
- Challenges and opportunities of big data in R&D
- Case study: Big data success stories in R&D

• 02 Day Two

Big Data Technologies and Infrastructure

- Big data architectures for R&D environments
- Data lakes and data warehouses in R&D contexts
- Cloud computing and big data processing
- Workshop: Designing a big data ecosystem for R&D

03 Day Three

Advanced Big Data Analytics for R&D

- Machine learning and AI for big data in R&D
- Real-time analytics and streaming data in R&D processes
- Text mining and natural language processing for research data
- Hands-on session: Big data analysis techniques

• 04 Day Four

Decision Making with Big Data in R&D

- Integrating big data insights into R&D decision processes
- Risk assessment and mitigation using big data
- Predictive modeling for R&D project outcomes
- Simulation: Making R&D decisions with big data inputs

• 05 Day Five

Implementing Big Data Strategies in R&D

- Developing a big data roadmap for R&D
- Change management for big data adoption
- Ethical and privacy considerations in big data R&D
- Action planning: Leveraging big data in your R&D organization

Confirmed Sessions

May 11, 2025 May 15, 20	25 5 days	4250.00 \$	KSA - Riyadh
Sept. 15, 2025 Sept. 19, 20	025 5 days	4250.00 \$	UAE - Abu Dhabi
Nov. 3, 2025 Nov. 7, 202	5 5 days	5950.00 \$	USA - Los Angeles

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