MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

BIG DATA PRINCIPLES AND PRACTICES

"Turning Data into Actionable Intelligence for Smarter Decisions and Sustainable Growth."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

The digital age has ushered in an explosion of data across all sectors — from business and finance to engineering, transportation, and public administration. Understanding how to manage, analyze, and leverage this vast amount of data has become an essential skill for modern professionals. Big Data provides the framework for handling massive, diverse, and fast-moving datasets, enabling organizations to uncover patterns, predict trends, and make informed, strategic decisions.

This course provides participants with a solid foundation in Big Data principles, technologies, and applications. It explores the architecture, tools, and analytical processes that transform raw data into meaningful insights. Participants will learn how Big Data systems are designed, how analytics tools operate, and how data-driven decision-making enhances efficiency, innovation, and competitiveness across industries.

Objectives

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

- Understand the fundamental concepts and characteristics of Big Data (Volume, Velocity, Variety, Veracity, and Value).
- Identify data sources and types relevant to Big Data analytics.
- Explain Big Data architectures, tools, and processing techniques.
- Apply analytical and visualization tools for insight generation.
- Recognize the role of Big Data in digital transformation and business intelligence.
- Assess challenges related to Big Data ethics, governance, and data security.
- Develop practical approaches for implementing Big Data solutions in organizations.

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Why Attend

In a world increasingly defined by information, professionals who understand Big Data have a competitive edge. This course bridges the gap between technology and strategy — offering participants the ability to interpret complex data, apply modern analytics tools, and make intelligent decisions based on evidence. Whether you're a manager, analyst, or engineer, this course provides the technical and conceptual foundation to thrive in a data-driven environment.

Target Audience

This course is designed for:

- Data Analysts and Business Intelligence Professionals
- IT Managers and Software Engineers
- Project Managers and Decision-Makers
- Researchers, Academicians, and Policy Planners
- Operations and Process Improvement Specialists
- Professionals interested in analytics and digital transformation

Individual Benefits

- Gain a strong understanding of Big Data frameworks and applications.
- Learn how to analyze and interpret large datasets effectively.
- Improve your ability to make data-driven business and technical decisions.
- Develop familiarity with leading Big Data tools and visualization platforms.
- Enhance your career prospects in analytics, IT, and management sectors.
- Acquire the confidence to participate in or lead data-centric projects.

Organizational Benefits

- Strengthen data management and analytical capabilities.
- Enhance decision-making accuracy through advanced data insights.
- Improve operational efficiency and forecasting accuracy.
- Foster innovation through data-driven strategy development.
- Build organizational capacity for digital and analytical transformation.
- Support compliance and governance through structured data management.

Instructional Methodology

The course uses a balanced approach combining theory with practical application through:

- Expert-led lectures and interactive discussions
- Demonstrations of Big Data tools and case examples
- Group activities and applied problem-solving sessions
- Visualization exercises using modern analytical platforms
- Real-world case studies from business, engineering, and public sectors

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Course Outline

Module 1: Introduction to Big Data – Concepts, Evolution, and Importance

Module 2: The 5 V's of Big Data – Understanding Data Complexity

Module 3: Big Data Architecture and Technologies (Hadoop, Spark, Cloud)

Module 4: Data Collection, Cleaning, and Storage Methods

Module 5: Data Analytics – Descriptive, Diagnostic, Predictive, and Prescriptive

Module 6: Data Visualization and Business Intelligence Tools

Module 7: Big Data Applications in Industry, Government, and Research

Module 8: Data Governance, Security, and Ethical Considerations

Module 9: Emerging Trends – AI, Machine Learning, and Data Automation

Module 10: Developing a Big Data Strategy – Implementation Framework

Certification

Participants who successfully complete the program will receive a Certificate of Completion in Big Data Principles and Practices, recognizing their foundational understanding and applied competence in managing and analyzing large datasets to drive intelligent decision-making and innovation.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**