Big Data Analysis Using Power BI

Practical business intelligence and data-driven decision-making skills

WHY BIG DATA ANALYSIS USING POWER BI MATTERS

Build data accuracy, analytical confidence, and organisational trust through effective big data analysis **using Power BI.**

Organisations increasingly rely on data to guide strategy, improve performance, and support informed decision-making. As data volumes grow in size and complexity, transforming raw data into meaningful, actionable insights has become a critical skill. Many organisations collect large amounts of data but struggle to analyse or present it effectively, leaving valuable data underused or disconnected from business outcomes.

The Big Data Analysis Using Power BI programme equips participants with practical skills to analyse large datasets, visualise insights, and support decision-making using Microsoft Power BI, a widely used business intelligence tool across government and industry.

WHY BIG DATA ANALYSIS MATTERS

In modern organisations, data-driven insight is critical to strategic planning, performance management, and informed decision-making.

Without strong data analysis capabilities, organisations may experience:

- Inaccurate or inconsistent reporting
- Limited visibility into performance and trends
- Disconnected data across systems and departments
- Delayed or ineffective decision-making
- Underutilisation of valuable data assets

Big Data Analysis Using Power BI equips participants with the practical skills and structured understanding needed to analyse large datasets, visualise insights, and translate data into meaningful business outcomes.

PROGRAMME OVERVIEW

The Big Data Analysis Using Power BI programme helps participants understand:

- Core concepts of big data and business intelligence
- How to connect, clean, and manage data from multiple sources
- Data modelling techniques for effective analysis
- How to design and build interactive dashboards and reports
- Best practices for data visualisation and insight communication
- How analytical insights support strategic and operational decisions

The programme places strong emphasis on practical application, enabling participants to analyse real datasets, build dashboards in Power BI, and deliver clear, actionable insights that support business and organisational decision-making.

The result:
Stronger analytical capability and more confident data-driven decision-making.

Big data analysis is not just about **handling large volumes of data**

It is about turning data into insight that organisations can act on with confidence

Accredited and **quality assured**

المؤسسة العامة للتدريب التقني والمهني
Technical and Vocational Training Corporation

What this programme Prepares **you to do**

This programme prepares participants to analyse, model, and visualise large datasets using Power BI in professional environments.

Participants learn how to connect data from multiple sources, build analytical models, create interactive dashboards, and communicate insights clearly to decision-makers.

PARTICIPANTS DEVELOP THE CAPABILITY TO

- Understand core concepts of big data and business intelligence
- Use Power BI to analyse and visualise large datasets
- Connect, integrate, and manage data from multiple sources
- Build analytical data models for reporting and insight generation
- Design interactive dashboards and data visualisations
- Interpret trends and patterns to support decision-making
- Improve data performance, accuracy, and security in Power BI environments
- Apply analytical insights to real business and organisational contexts

OUTCOMES FOR PARTICIPANTS

By the end of the programme, participants will be able to:

- Analyse large datasets using Power BI tools
- Build interactive dashboards and analytical reports
- Integrate data from multiple sources effectively
- Interpret data trends and extract actionable insights
- Support strategic and operational decisions with data-driven evidence
- Apply business intelligence techniques in professional environments

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Programme structure and **delivery options**

Programme Duration	Delivery Format	Learning Approach	Flexible Delivery
160 learning hours (40 training days)	Online instructor-led training Subject Matter Expert	Practical and interactive sessions Real-world scenarios and guided discussions	Adaptable for organisational requirements and cohort-based delivery

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Instructor-led delivery

All training units are delivered by subject-matter experts with real-world experience in data analytics and business intelligence, ensuring learning is practical, relevant, and immediately applicable.

HOW LEARNING
IS APPLIED

Participants apply Power BI tools and analytical techniques to realistic workplace scenarios involving large datasets and complex information.

Learning focuses on hands-on analysis, dashboard development, and insight communication rather than theory alone.

PARTICIPANTS EXPLORE

- ✓ Big data and business intelligence fundamentals
- ✓ Data preparation, transformation, and integration in Power BI
- ✓ Analytical data models and relationships
- ✓ Interactive dashboards and visual reports
- ✓ Trends and patterns for decision-making
- ✓ Performance, accuracy, and security
- ✓ Real-world analytics project

THIS PROGRAMME IS DESIGNED FOR

This programme is suitable for:
- Data analysts and data engineers
- Professionals transitioning from Excel to advanced analytics
- Planning, monitoring, and control managers
- Marketing, finance, HR, and operations professionals
- Developers and technical professionals
- Graduates in IT, statistics, data management, and business

A basic understanding of data or spreadsheets is beneficial but not mandatory.

COURSE PREREQUISITES

No advanced accounting qualification is required.

The programme is suitable for participants seeking to build or strengthen practical accounting capability in corporate environments.

PROGRAMME DELIVERY

- Online instructor-led training
- Practical and interactive sessions
- Real-world scenarios and guided discussions

WHAT THIS TYPE OF TRAINING DELIVERS

Immediate Application	Clear Insights	Data-Driven Decisions	Modern Analytics Capability
Apply Power BI and analytics skills directly to real workplace data	Transform complex data into understandable dashboards and reports	Support strategic and operational choices with evidence	Build practical business intelligence skills aligned with workplace needs

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The result:
Clearer insights. Stronger decisions. And professionals who confidently turn big data into meaningful business intelligence where it matters most.

COCREATE TO ACTIVATE™

CoCreate to Activate™ is Maximus Academy's four-step method for building skills that last—not just in the classroom, but inside real organisations operating in fast-moving, high-demand sectors across the region.

Turning capability into national outcomes.

ASSESS
Understand the real operating world

DESIGN
Build training that fits the sector

DELIVER
Teach through Saudi SMEs and practitioners

SUSTAIN
Embed the change inside organisations

What this Ensures

- Skills that match global industry demands, not generic international templates.

- Immediate operational impact, because training is built around real sector challenges.

- Lasting organisational capability through the adoption of performance-driven tools and behaviours.

It is the difference between training individuals and equipping an entire workforce with the capabilities to perform, adapt, and deliver at scale.

Register for the course through the QR code

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Training that fits your world