MAWA EVENTS

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

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

DATA ANALYSIS AND DATA VISUALIZATION FOR PROJECT MANAGERS

"Transforming Project Data into Actionable Insights for Strategic Execution"

Schedule

Date	Venue	Fees (Face-to-Face)
02 – 06 Nov 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

In an increasingly data-centric project environment, project managers must master more than just scheduling and resource allocation. They need to interpret complex project data, monitor performance metrics, and communicate results effectively to stakeholders.

This intensive 5-day course equips project professionals with practical skills in data analysis and visualization to enhance planning, monitoring, and reporting. By leveraging tools like Excel and Power BI, participants will learn to make faster, smarter project decisions that drive success.

Objectives

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

- Collect, clean, and analyze project data for effective decision-making
- Track and visualize KPIs such as cost, schedule, risk, and resource performance
- Build dynamic dashboards using Excel and Power BI
- Apply diagnostic and trend analysis to project outcomes
- Communicate project data clearly to clients, teams, and executives

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Why Attend

- Master tools that make your project data meaningful and actionable
- Strengthen your decision-making with real-time insights
- Improve reporting transparency and stakeholder communication
- Detect project delays, cost overruns, and risks early
- Boost your credibility with data-backed leadership

Target Audience

This program is designed for:

- Project managers and PMO staff
- Program managers and project coordinators
- Business analysts involved in project monitoring
- Engineers, consultants, and schedulers managing technical projects
- Anyone responsible for project performance reporting

Individual Benefits

Key competencies that will be developed include:

- Project data interpretation and visualization skills
- Proficiency in Excel and Power BI for project dashboards
- Monitoring and evaluation of earned value and performance indexes
- Effective presentation of project status and forecasts
- Stronger analytical mindset for project leadership

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced transparency in project tracking and reporting
- Data-driven project planning and risk management
- Improved team alignment through visual status reporting
- More accurate forecasting of time and budget outcomes
- Strategic decision-making based on real-time project analytics

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Project analytics frameworks, KPIs, and reporting standards
- Case Studies – Project scenarios from construction, IT, and engineering sectors
- Workshops – Excel and Power BI exercises using real-world project datasets
- Peer Exchange – Discussions on project data challenges across industries
- Tools – Templates for dashboards, cost tracking, and earned value analysis

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of Project Data Analysis

- Module 1: Project Metrics and KPIs (07:30 – 09:30) • Key performance indicators for project success • Cost, schedule, scope, quality, and risk metrics • Tracking earned value and performance indexes
- Module 2: Data Collection and Structuring (09:45 – 11:15) • Data sources: schedules, reports, risk logs, timesheets • Cleaning and organizing data for consistency • Structuring tables for analysis in Excel
- Module 3: Workshop – Structuring a Project Dataset (11:30 – 01:00) • Hands-on practice with task and milestone data
- Module 4: Peer Exchange – Real-World Reporting Gaps (02:00 – 03:30) • Group sharing of pain points in project data usage

Day 2: Excel-Based Project Analytics and Visualization

- Module 5: Excel Functions for Project Analysis (07:30 – 09:30) • Pivot tables, lookups, conditional formatting • Variance, duration, resource, and budget tracking • Basic dashboards using Excel charts
- Module 6: Workshop – Gantt Chart & Timeline Dashboard (09:45 – 11:15) • Visualizing project timelines using Excel tools
- Module 7: Case Study – Analyzing Schedule Slippage (11:30 – 01:00) • Detecting delays and forecasted overruns
- Module 8: Peer Feedback – Dashboard Usability Review (02:00 – 03:30) • Team review and critique of sample dashboards

Day 3: Power BI for Dynamic Project Dashboards

- Module 9: Introduction to Power BI for Project Data (07:30 – 09:30) • Data models, relationships, and importing project data • Interactive dashboards and filtering
- Module 10: Visualizing Performance Data (09:45 – 11:15) • Progress, budget burn rate, and risk matrix dashboards • Drill-downs and report interactivity
- Module 11: Workshop – Building a PMO Dashboard (11:30 – 01:00) • Design and build a dashboard in Power BI
- Module 12: Peer Exchange – Project Dashboard Applications (02:00 – 03:30) • Cross-sector discussion of use cases

Day 4: Predictive Project Analytics and Reporting

- Module 13: Forecasting in Projects (07:30 – 09:30) • Trend analysis and forecasting progress • Estimating cost to complete and time to complete • Regression and prediction basics
- Module 14: Diagnostic Analytics and Root Cause Analysis (09:45 – 11:15) • Analyzing why projects deviate from baseline • Visualization techniques for highlighting risk
- Module 15: Workshop – Forecasting Project Completion (11:30 – 01:00) • Forecast final cost and schedule using earned value data
- Module 16: Peer Review – Forecasting Strategies (02:00 – 03:30) • Discussion on prediction accuracy and refinement

Day 5: Presenting Insights and Executive Reporting

- Module 17: Storytelling with Project Data (07:30 – 09:30) • Telling a compelling story with charts and summaries • Stakeholder-specific reporting styles
- Module 18: Reporting Tools and Templates (09:45 – 11:15) • Status report formats for weekly and executive updates • Power BI and Excel templates for continued use
- Module 19: Final Group Project – Project Health Analysis (11:30 – 01:00) • Analyze, visualize, and present a full project case
- Module 20: Review, Feedback and Closing (02:00 – 03:30) • Course recap, toolkit handover, and certification

Certification

Participants will receive a Certificate of Completion in Data Analysis and Visualization for Project Managers, validating their ability to analyze, interpret, and present project data for better planning, execution, and stakeholder communication.

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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**