Power Business Intelligence Automation & APIs Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Power BI has emerged as a leading business intelligence tool, enabling organizations to transform raw data into actionable insights. With the growing demand for automation and integration capabilities, mastering Power BI Automation & APIs is essential for professionals aiming to streamline data workflows, enhance reporting efficiency, and drive strategic decisions. Power Business Intelligence Automation & APIs Training Course is designed to equip participants with the expertise to leverage Power BI's advanced automation features, integrate with various APIs, and create scalable dashboards that empower businesses with real-time analytics. Participants will gain hands-on experience in connecting multiple data sources, automating repetitive tasks, and utilizing APIs to enhance organizational productivity.

In today's competitive data-driven environment, organizations require skilled professionals who can bridge the gap between raw data and intelligent insights. This course emphasizes practical learning, real-world case studies, and industry-standard best practices. Participants will not only understand the theoretical aspects of automation and API integration but also implement end-to-end solutions for complex business scenarios. By completing this course, learners will be prepared to optimize reporting processes, reduce manual effort, and contribute to data-driven decision-making across various sectors, including finance, marketing, operations, and IT.

Programme Curriculum

Power Business Intelligence Automation & APIs Training Course

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Course Objectives

1. Understand Power BI architecture and its automation capabilities.
2. Learn to connect and integrate multiple data sources using APIs.
3. Automate data refresh, reports, and dashboards efficiently.
4. Implement Power BI workflows using Power Automate.
5. Apply DAX and M language for advanced data transformations.
6. Design interactive and dynamic dashboards for executive reporting.
7. Utilize REST APIs for data integration and workflow automation.
8. Build secure and scalable Power BI solutions for enterprise use.
9. Develop real-time analytics solutions with streaming datasets.
10. Apply best practices in Power BI administration and governance.
11. Integrate Power BI with Microsoft Teams and SharePoint for collaborative reporting.
12. Troubleshoot common issues in Power BI automation and API workflows.
13. Analyze case studies and implement practical solutions in business contexts.

Organizational Benefits

1. Enhanced decision-making with automated reporting.
2. Reduced manual workload and improved efficiency.
3. Streamlined data integration across multiple platforms.
4. Improved real-time monitoring of business performance.
5. Consistent and error-free reporting processes.
6. Scalable analytics solutions for growing organizations.

7. Faster insights from connected data sources.
8. Better collaboration across departments through automated dashboards.
9. Compliance with data governance and security best practices.
10. Improved ROI from business intelligence investments.

Target Audiences

1. Data Analysts and Business Analysts
2. Business Intelligence Developers
3. IT Professionals and System Integrators
4. Financial Analysts and Accountants
5. Marketing Analysts and Strategists
6. Operations and Supply Chain Managers
7. Project Managers
8. Decision-makers seeking data-driven solutions

Course Duration: 5 days

Course Modules

Module 1: Introduction to Power BI Automation

- Overview of Power BI and automation trends
- Understanding the Power BI service and desktop environment
- Key automation use cases in business reporting
- Introduction to Power Automate and API integration
- Exploring data connectivity options
- Case Study: Automating daily sales reports for a retail chain

Module 2: Data Integration and API Fundamentals

- Understanding REST APIs and web services
- Connecting Power BI to external APIs
- Authentication and security in API integration
- Data extraction and transformation best practices
- Automating API calls with Power Automate
- Case Study: Integrating social media data into Power BI dashboards

Module 3: Advanced Data Modeling

- Using DAX for advanced calculations
- Creating calculated tables and measures
- Implementing relationships between multiple data sources
- Optimizing data models for performance
- Automating model updates and transformations
- Case Study: Real-time financial dashboard automation

Module 4: Workflow Automation in Power BI

- Setting up recurring data refresh schedules
- Automating notifications and alerts
- Creating automated workflows with Power Automate
- Error handling and monitoring automation
- Integrating with Microsoft Teams and SharePoint
- Case Study: Automating KPI reporting for a multinational company

Module 5: Dynamic Dashboards and Visualizations

- Designing interactive reports and dashboards
- Using slicers, filters, and drill-throughs
- Automating visual updates and conditional formatting
- Implementing role-based access control
- Best practices for dashboard usability
- Case Study: Sales performance dashboard with automated updates

Module 6: Real-Time Analytics and Streaming Data

- Understanding streaming datasets
- Connecting IoT and live data sources
- Automating data ingestion for real-time dashboards
- Performance optimization for streaming visuals
- Alerting and monitoring based on real-time data
- Case Study: Live operational dashboard for manufacturing plant

Module 7: Administration, Governance, and Security

- Power BI administration and workspace management
- Automating security and access controls
- Data governance and compliance best practices
- Monitoring usage and adoption with automation
- Troubleshooting automation and API issues
- Case Study: Governance automation for enterprise reporting

Module 8: Capstone Project and Practical Implementation

- Integrating all concepts from previous modules
- Designing a complete automated Power BI solution
- Implementing API-driven data workflows
- Presenting dashboards and reports to stakeholders
- Peer review and feedback on project solutions
- Case Study: End-to-end automated reporting for a global company

Training Methodology

- Instructor-led live sessions with interactive discussions
- Hands-on exercises and practical implementation
- Real-world case studies for each module
- Group activities and problem-solving sessions
- Assessments and quizzes to reinforce learning
- One-on-one mentoring and query resolution

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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