

# ADVANCED SAFETY DATA ANALYSIS USING EXCEL AND POWER BI

*"Transform safety data into actionable insights using advanced Excel and Power BI techniques"*

## Schedule

Date	Venue	Fees (Face-to-Face)
12 - 13 May 2026	Riyadh, KSA	USD 1995 per delegate

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

## Introduction

Safety data is a critical asset for organizations seeking to prevent incidents and enhance workplace safety. However, extracting meaningful insights from large datasets requires advanced analytical tools and techniques. Leveraging Excel and Power BI enables organizations to visualize trends, identify risks, and drive data-informed safety decisions.

This 2-day intensive training provides participants with practical skills to perform advanced safety data analysis using Excel and Power BI. Through interactive workshops, real-world case studies, and hands-on exercises, participants will learn to create dashboards, reports, and predictive models that improve safety performance and decision-making.

## Objectives

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

- Analyze safety data using advanced Excel functions and Power BI
- Create interactive dashboards and visualizations to monitor safety performance
- Identify trends, patterns, and anomalies in safety incidents
- Apply predictive analytics for proactive safety management
- Communicate insights effectively to stakeholders using data visualization
- Implement best practices in safety data management and reporting
- Enhance decision-making through data-driven safety strategies

## Why Attend

- Learn to turn raw safety data into actionable insights
- Improve decision-making and safety performance monitoring
- Enhance data visualization and reporting skills
- Apply real-world techniques for predictive safety analysis
- Strengthen cross-functional collaboration using data-driven insights

## Target Audience

This program is designed for:

- Safety managers and officers
- HSE professionals and analysts
- Risk management personnel
- Data analysts in industrial or corporate safety departments
- Supervisors and managers responsible for monitoring safety performance

## Individual Benefits

Key competencies that will be developed include:

- Advanced Excel and Power BI skills for safety data analysis
- Ability to create dashboards, reports, and visualizations
- Skills in predictive analytics for proactive safety management
- Knowledge of best practices for data management and reporting
- Enhanced ability to communicate insights to stakeholders

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety monitoring and performance management
- Enhanced risk identification and mitigation capabilities
- Better-informed decision-making through data-driven insights
- Efficient reporting and communication of safety metrics
- Strengthened organizational culture of proactive safety management

## Instructional Methodology

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

- Strategy Briefings - Overview of safety data analysis and visualization concepts
- Case Studies - Practical examples of Excel and Power BI applications in safety
- Workshops - Hands-on exercises in dashboard creation, reporting, and predictive modeling
- Peer Exchange - Group discussions on best practices and lessons learned
- Tools - Templates, dashboards, and analytical frameworks for safety data analysis

## Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks included

Day 1: Advanced Excel for Safety Data Analysis

Module 1: Introduction to Safety Data Analysis (09:00 – 10:30)

- Overview of safety data management and analytical goals
- Key metrics, KPIs, and reporting requirements

Module 2: Advanced Excel Techniques (10:45 – 12:15)

- Functions, formulas, pivot tables, and macros
- Data cleaning and transformation

Module 3: Visualization and Dashboards (01:00 – 02:15)

- Creating charts, graphs, and interactive dashboards
- Best practices in visual presentation

Module 4: Workshop – Excel Data Analysis (02:30 – 03:30)

- Hands-on exercises with sample safety datasets

Day 2: Power BI for Safety Analytics

Module 1: Introduction to Power BI (09:00 – 10:30)

- Power BI interface, data connections, and modeling
- Importing and transforming safety data

Module 2: Creating Interactive Dashboards (10:45 – 12:15)

- Designing dashboards for monitoring safety KPIs
- Interactive visualizations and filtering

Module 3: Predictive Analytics and Reporting (01:00 – 02:15)

- Trend analysis, forecasting, and anomaly detection
- Generating reports for management and stakeholders

Module 4: Workshop – Power BI Dashboard (02:30 – 03:30)

- Hands-on dashboard creation and insights presentation
- Group discussion and review

## Certification

Participants will receive a Certificate of Completion in Advanced Safety Data Analysis Using Excel and Power BI, validating their ability to analyze, visualize, and report safety data for informed decision-making and improved workplace safety.

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