

COURSE OVERVIEW IE0397 **Analyzing & Visualizing Data with Power BI**

Course Title

Analyzing & Visualizing Data with Power BI

Course Date/Venue

August 18-22, 2025/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference

IE0397

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using the “Microsoft Power BI” application.



This course is designed to maximize your proficiency with Microsoft's Power BI suite, empowering you to construct interactive dashboards for thorough data analysis and valuable business insights extraction. It covers the fundamental Power BI concepts including Microsoft Power BI desktop layouts, features and visuals; the BI reports, dashboards, and Power BI DAX commands and functions; connecting to common data sources and query editor layout and functionality; the built-in aggregations, calculated columns and measures; and the visual demonstration and some slightly advanced measures.



During this interactive course, participants will learn the competitive edge in crafting customized visuals; delivering robust analyses of extensive datasets using Power BI; the data visualization best practices; reviewing report and dashboard layout; creating sales analysis and project management report; acquiring proficiency in experimenting with, fixing, preparing, and presenting data swiftly and effortlessly; creating detailed reports on sales analysis and project management; and establishing relationships within the data model.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on data visualization and dashboards of Power BI
- Discuss the fundamental Power BI concepts including Microsoft Power BI desktop layouts, features and visuals including BI reports, dashboards, and Power BI DAX commands and functions
- Connect to common data sources and identify query editor layout and functionality
- Review built-in aggregations, calculated columns and measures, visual demonstration and some slightly advanced measures
- Develop a competitive edge in crafting customized visuals and delivering robust analyses of extensive datasets using Power BI
- Apply data visualization best practices, review report and dashboard layout and create sales analysis and project management report
- Acquire proficiency in experimenting with, fixing, preparing, and presenting data swiftly and effortlessly
- Create detailed reports on sales analysis and project management as well as establish relationships within the data model

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides a basic overview of all significant aspects and considerations of data analysis and reporting using Power BI for business intelligence (BI) and reporting professionals, data analysts and those who are seeking comprehensive knowledge of Power BI tools and the ability to craft custom visuals using Power BI developer tools.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

-  British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

-  The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. Peter Lalos, PhD, MSc, BSc, is a **Senior IT, Telecommunications, Control & Electronics Engineer** with over **20 years** of extensive experience in the areas of **IT Risk Management Concepts, IT Risk Management Standard Approaches, IT Risk Management Planning, IT Risk Identification, IT Risk Monitoring & Control, Information Technology Architectures, Application Architecture, Logical Applications, Interfaces & Services, Logical & Physical Components, Portfolio Management, Application Security, Application Integration Technologies & Strategies, Solution Architecture Patterns, Web Applications & Services, Mobile & Cloud Applications, Blended Learning Programs, Web Programming, E-Commerce Strategies, Advanced Database Management Systems, Web Design, HCI, 3D Animation, Multimedia Design, Gamification Techniques, Internal & External Auditing, OS Architectures and Network Security**. Further, he is also well-versed in ACAD, ASP, PHP, JSP, MS Visual Studio, VB.NET, ASP.NET, Moodle administration, Design & Development, WAMP & LAMP, Oracle JDeveloper, Oracle 11g, PL/SQL, MS SQL Server, MySQL, MS Access, HTML5, CSS, XML, XSD/ XSL, JavaScript, Ajax, Angular, jQuery, Web Services Adobe Suite, MS Office 2013, IIS Servers, MS Exchange Server & Apache Tomcat, Open Source CMS Expert (Xaraya, Joomla, Mambo) & Module Development, Open Source E-commerce Expert (oscommerce, Joomla & Virtuemart) and Module Development. Currently, he is the **IT Instructor/Subject Matter Expert and Course Developer** of the **University of Liverpool, UK**, wherein he lectures various courses in **Information Systems Program** and develop courses in Information Technology project management and security risk management.

During his career life, Dr. Lalos has gained his practical and field experience through his various significant positions and dedication as the **IT Manager, Bid Manager & S/W Developer, Project Manager, E-Learning Software Manager, Scrum Master, IT Professor, IT Lecturer/Trainer, Telecommunications, Control & Electronics Lecturer, Physics Instructor, Scientific Advisor, E-Learning Specialist, Undergraduate & Postgraduate Thesis Supervisor, IT Contractor, Laboratory Administrator, Moodle Expert & Administrator and Telecommunications Engineer** for various companies and universities such as the University of Greenwich, Empire State College, Roehampton University, University of East London, Athens Technology Center, University of Athens, **ShellGas**, Advanced Services Group (ASG), Piraeus University, Chemmedia Hellas Ltd., Conceptum S.A, IEK and Frontistirio Apopsi.

Dr. Peter has a **PhD** in **IT, Telecommunications, Control & Electronics** from the **University of Athens**, a **Master's degree** in **Information Technology with Web Technology** from the **University of Paisley, UK** and a **Bachelor's degree** in **Physics** from the **Aristotelian University of Thessaloniki, Greece**. Further, he is a **Certified Instructor/Trainer**, a **Scrum Master**, a **Certified Administrator** and an **LMS Specialist**. He has further published several journals, participated as an author in various projects and conducted numerous trainings, courses, workshops, seminars and conferences internationally.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Monday, 18th of August 2025

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to Data Visualization & Dashboards of Power BI
0930 – 0945	Break
0945 – 1130	Desktop Layout, Features & Views
1130 – 1230	Connecting to Common Data Sources
1230 – 1245	Break
1245 – 1420	Query Editor Layout & Functionality
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Tuesday, 19th of August 2025

0730 – 0930	Creating Relationships in Your Data Model
0930 – 0945	Break
0945 – 1130	Built-in Aggregations
1130 – 1230	Calculated Columns & Measures
1230 – 1245	Break
1245 – 1420	Visual Demonstration
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3: Wednesday, 20th of August 2025

0730 – 0930	Some Slightly Advanced Measures
0930 – 0945	Break
0945 – 1130	Data Visualization Best Practices
1130 – 1230	Report & Dashboard Layout
1230 – 1245	Break
1245 – 1420	Creating a Sales Analysis Report
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4: Thursday, 21st of August 2025

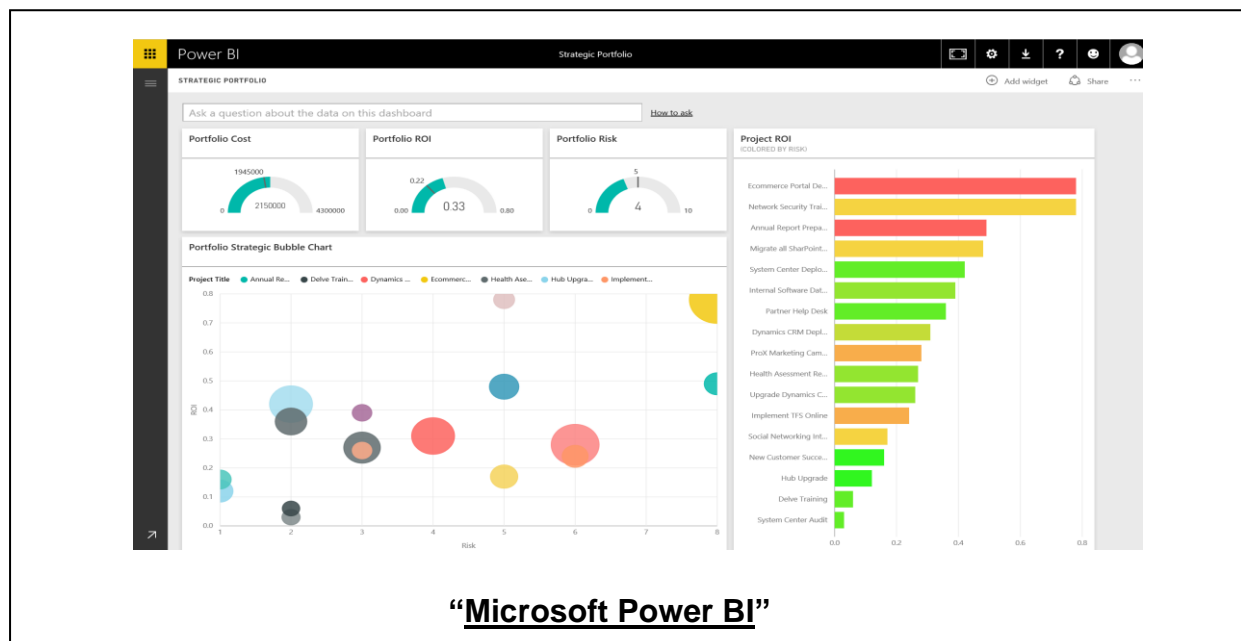
0730 – 0930	<i>Creating a Project Management Report</i>
0930 – 0945	<i>Break</i>
0945 – 1130	<i>Reports Microsoft Power BI Desktop</i>
1130 – 1230	<i>Creating a Dashboard from Existing Reports</i>
1230 – 1245	<i>Break</i>
1245 – 1420	<i>Getting Quick Insights</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch & End of Day Four</i>

Day 5: Friday, 22nd of August 2025

0730 – 0930	<i>Asking Questions of Your Data</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Asking Questions of Your Data (cont'd)</i>
1100 – 1230	<i>Data Alert!</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>Data Alert! (cont'd)</i>
1345 – 1400	<i>Course Conclusion</i>
1400 – 1415	<i>POST-TEST</i>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Hands-on Practical Sessions

Practical session will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the “**Microsoft Power BI**”.



Course Coordinator

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