COURSE OVERVIEW IT0163
Power BI

Course Title
Power BI

Course Date/Venue
Session 1: August 30-September 03,2026/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE
Session 2: December 06-10, 2026/Sur Meeting Room, Royal Tulip Muscat, Muscat, Oman

Course Reference
IT0163

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.

Power BI is a robust business analytics and visualization tool from Microsoft that helps data professionals bring their data to life and tell more meaningful stores.

This course is a guide to working with data in Power BI and is perfect for professionals. You'll become confident in working with data, creating data visualizations, and preparing reports and dashboards.

This course is designed to provide participants with a detailed and up-to-date overview of data analysis and reporting using Power BI. It covers the extent of Power BI and turning of data into business insights; the key benefits and differentiators of Power BI including the types of data; the VAnArdsel, Power BI data model, Power BI data flow and exploration of data set; the basic data modelling and designing of a good data model; the Power BI advanced data modelling and basic data modelling; the Power BI desktop internals, DAX calculated columns and measures, DAX level set, Dax foundations and DAX evaluation contexts; and the advanced DAX time intelligence functions and Power BI support resources.

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain a comprehensive knowledge on data analysis and reporting using Power BI
- Determine the extent of Power BI and turn data into business insights
- Identify the key benefits and differentiators of Power BI including the types of data
- Get started with Power BI desktop as well as go from data to insight to action
- Describe VAnArdsel, Power BI data model and Power BI data flow as well as explore data set
- Carryout basic data modelling and design a good data model
- Employ Power BI advanced data modelling and basic data modelling
- Recognize Power BI desktop internals, DAX calculated columns and measures, DAX level set, Dax foundations and DAX evaluation contexts
- Utilize advanced DAX time intelligence functions and Power BI support resources

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 an overview of all significant aspects and considerations of data analysis using Power BI for risk managers, financial analysts, accountants, strategic planners and treasury, budgeting and planning specialists.

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.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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.

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:

Mr. Konstantin Kaminaris, MSc, BSc, is a **Senior IT Specialist** with **20 years** of extensive experience in the areas of **Artificial Intelligence**, **Digitalization**, **Digital Transformation** Strategy & Implementation, **VMware Virtualization** (ESXi, vCenter, vGPU, VCF), **Microsoft Enterprise** Systems, **Microsoft Servers**, **Microsoft Hyper-V**, **Microsoft Exchange**, **Microsoft 365 Cloud** Services (Exchange Online, Teams, OneDrive), **Microsoft Azure & Hybrid Active Directory** Environments, **VMware** Events, **VMware** ESXi/vCenter, **Enterprise Infrastructure & Virtualization**, **Data Center** Infrastructure, **Data Center Architecture & Digital Transformation** Projects, Mission-critical IT Systems, **Data Center** Design & Management, **File Server & Corporate Document** Management, ERP (SAP) & Oracle Database Systems, Oracle OVM, Oracle DB, Active Directory, SAP ERP, VMware vSphere 6.0 Installation & Configuration, Microsoft Windows Server 2012 R2, Microsoft Exchange Server 2012, Red Hat Linux Administration, AutoCAD and GIS ArcView.

During his career life, Mr. Kaminaris has gained his practical and field experience through his various significant positions and dedication as the **Head of Systems Department**, **IT Professional**, **Information Technology Specialist**, **Central Infrastructure & User Support** and **Senior Instructor/Trainer/Lecturer**, **Certified OAED Instructor** and **Technical Trainer** from various companies such as the Independent Power Transmission (ADMIE) and Renewable Energy Sources & Guarantees of Origin Administrator (DAPEEP).

Mr. Kaminaris is currently taking up his **Master's** degree in **Digital Culture**, **Smart Cities**, **IoT & Advanced Digital Technologies** and has a **Bachelor's** degree in **Computer Science** and a **Diploma** in **Computer Science**. Further, he is a **Certified Instructor/Trainer** and holds a **Certificate** in **Programming & Computer Operation**. He has delivered numerous trainings, courses, workshops, conferences and seminars internationally.

Accommodation

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

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

0730 - 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 - 0930	***Introducing Microsoft Power BI***
0930 – 0945	*Break*
0945 – 1030	***Power BI is a Cloud-Based Business Analytics Service***
1030 – 1130	***Get Started Now at www.powerbi.com***
1130 - 1230	***Today, BI Extends to Everyone*** *1st wave (Technical BI) – IT to End User • 2nd Wave (Self-service BI) – Analyst to End User • 3rd Wave (End user BI) – Everyone*
1230 – 1245	*Break*
1245 - 1330	***Turning Data into Business Insights is Challenging***
1330 - 1420	***Power BI – Experience Your Data - Any Data, Anyway, Anywhere***
1420 – 1430	***Recap***
1430	*Lunch &End of Day One*

Day 2

0730 – 0930	***Key Benefits & Differentiators of Power BI*** *Pre-Built Dashboards & Reports for Popular SaaS Solutions • Real-Time Dashboard Updates • Secure, Live Connection to Your Data Sources, On-Premises & in the Cloud • Intuitive Data Exploration Using Natural Language Query • Integrated with Familiar Microsoft Products & Utilizes Commitment for Scale & Availability in Azure • Fast Deployment, Hybrid Configuration, Secure & Integrated with Existing IT Systems*
0930 - 0945	*Break*
0945 - 1030	***Power BI Overview*** *Data Sources (SaaS Solutions, On-Premises Data, Organizational Content Packs, Azure services, Excel Files, Power BI Desktop Files) • Power BI Service (Content Packs, Live Dashboards, Visualizations, Reports, Datasets, Data Refresh, Natural Language Query, Sharing & Collaboration, Workspaces & Apps, Power BI REST APIs, Power BI Embedded)*
1030 – 1130	***Getting Started with Power BI Desktop***
1130 - 1230	***Go from Data to Insight to Action with Power BI Desktop*** *Advanced Download Options*
1230 – 1245	*Break*
1245 - 1330	***Switch to Power BI – Live Introduction Demo***
1330 - 1420	***Van Arsdel***
1420 – 1430	***Recap***
1430	*Lunch &End of Day Two*

Day 3

0730 – 0830	***Power BI Data Model***
0830 - 0930	***Explore Dataset*** *Dataset VanArsdel • The Request*
0930 - 0945	*Break*
0945 – 1030	***Where Do We Start? Ask the Right Questions*** *What Data Do We Need? • What Data Do We have? • What Data Do We Transform?*
1030 - 1130	***Basic Data Modeling*** *Module Objectives • Power BI Desktop Data Flow • What is a Data Model? • Components of a Data Model • Data Model Brings Facts & Dimensions Together • Flat or Denormalized schema • Star Schema • Snowflake Schema • Granularity & Multiple Fact*
1130 - 1230	***Data Types*** *Numeric Data Types • Date/Time Data Types • Other Data Types*
1230 - 1245	*Break*
1245 - 1420	***Designing Good Data Models***
1420 – 1430	***Recap***
1430	*Lunch &End of Day Three*

Day 4

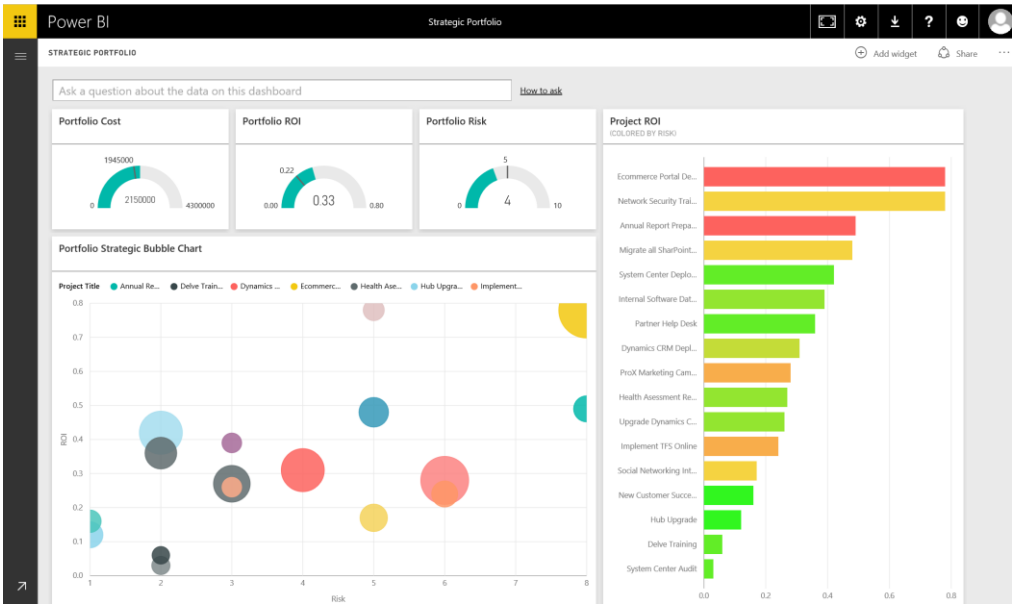
0730 - 0830	***Power BI Advanced Data Modelling: Enhance your Data Model*** *Prerequisites & Setup Steps*
0830 - 0930	***Module 1: Basic Data Modeling & Power BI Desktop Internals*** *What is Unique about Power BI Desktop • Let Us Understand Some of the Internals of Power BI Desktop • Columnar Database • In-Memory Database • How Power BI Compresses Data • Practical Example of Compression • Phases in Building a Power BI Desktop File • Key Takeaways to Design a Good Power BI Desktop Data Model • Some Tips & tricks to Save RAM & Increase Speed of Model • Data Types • Hierarchies • Sort by Column*
0930 – 0945	*Break*
0945 – 1030	***Module 1 Lab, Knowledge Check Module 1***
1030 - 1130	***Module 2: DAX Calculated Columns & Measures*** *DAX Level Set*
1130 - 1230	***DAX Foundations*** *What is a Calculated Column? • Calculated Column in DAX vs Custom Column in "Query Editor" • Calculated Column – Accessing Columns from other Tables in Model • Row Context and Multiple Tables – RELATED Function • RELATED Function Example • When is a Calculated Column Evaluated? • Best Practices with DAX Calculated Columns • What is a Default Summarization? • Why are Default Summarizations useful? • What is a Measure? • Using One Measure in Another • More Complex Calculations • Calculated Column vs. Measure - When to Use What*
1230 – 1245	*Break*
1245 - 1420	***Module 2 Lab, Knowledge Check Module 2***
1420 – 1430	***Recap***
1430	*Lunch &End of Day Four*

Day 5

0730 - 0930	***Module 3:*** *Calculate* *PATH to DAX Expertise • Why is CALCULATE Useful? • Here is how you do it with CALCULATE • Anatomy of CALCULATE • Steps in Evaluating the CALCULATE Function • The Most Important Function in DAX • Add Filter • Ignore an Existing Filter • Update Existing Filter*
0930 – 0945	*Break*
0945 – 1130	***Module 4: DAX Evaluation Contexts*** *PATH to DAX Expertise • Evaluation Context • Row Context in Calculated Column • Filter Context in Measures • Filter Context & Multiple Tables • Filter Context & Multiple Tables – Right Arrow Direction • Filter Context & Multiple Tables – Wrong Arrow Direction • Evaluation Context Multiple Table – Summary & Take Aways • DAX Function Types • Applications of Table Functions • Basic TABLE Functions • Basic Table Functions – Return All Rows • Basic Table Functions – ALL Versions • Basic Table Functions – Return Distinct Rows • Basic Table Functions – Return Filtered Set of Rows • DAX Iterator Functions Take Advantage of Evaluation Context • Table Functions Application – Iterators • Row Context in a Measure – Iterator Functions • Why Can an Iterator be a Better Approach then a Calculated Column? • Iterator Function Example 2 – Dynamic Segmentation • CALCULATE – Converting Row Context to Filter Context (Example 1) • Iterator Function Example 3 • Other Iterator Functions • Table Functions – Summary & Application*
1130 - 1230	***Module 4 Lab, Knowledge Check Module 4***
1230 – 1245	*Break*
1245 – 1300	***Module 5: Advanced DAX Time Intelligence Functions*** *Month Over Month • Monthly Active Users • Other Time Intelligence Functions*
1300 - 1330	***Advanced DAX*** *Before we get to Time Intelligence (Let Us Apply All of the DAX Techniques, Let Us Apply All of the Data Modelling Techniques*
1330 - 1345	***Power BI Support Resources***
1345 – 1400	***Course Conclusion***
1400 - 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

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".



"Microsoft Power BI"

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org