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CERTIFICATE IN DATA ANALYTICS FOR MANAGEMENT REPORTING USING MICROSOFT EXCEL

A series of hands-on and practical workshops that will help you master the ability to analyse large amount of data to identify trends and patterns that can influence your decision-making process.

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DATES & VENUE

LEVEL 1	15 & 16 November 2023 (Wednesday & Thursday), 9.00am – 5.00pm Connexion Conference & Event Centre @ The Vertical, Bangsar South, Kuala Lumpur	
LEVEL 2	20 & 21 November 2023 (Monday & Tuesday), 9.00am – 5.00pm Wyndham Grand Bangsar Kuala Lumpur	
LEVEL 3	22 & 23 November 2023 (Wednesday & Thursday), 9.00am – 5.00pm Wyndham Grand Bangsar Kuala Lumpur	

ENJOY 5% or 10% DISCOUNT

on total programme fees when you register for ANY 2 levels, or ALL 3 levels respectively.

Digital Badge in Data Analytics will only be given upon completion of assessment and full attendance of levels 2 & 3 OR of all 3 levels. "Customer is King" has now taken a step back to the new era, "Data is King". In today's world of big data, companies can achieve real results with their analytical models based on improvised new data sources. However, big data requires specialised tools and highly skilled professionals. Companies can now achieve similar results on small data using tools such as Microsoft Excel, which can be used to analyse, gather information, and interpret raw data meaningfully.

The average person can learn to become a data analyst quickly by mastering the ability to analyse large amount of data to identify trends and patterns that can influence the decision making processes.

These highly hands-on practical workshops are specifically designed to help anyone master these skills of comprehending data and how best they can be used to make guick decisions, grow one's business, and look into areas of cost cutting measures.

METHODOLOGY

Lectures accompanied by practical examples and mini cases.

FACILITATOR

PALANI MURUGAPPAN

Palani a.k.a. The Interpreter (who helps converge data into information), applies the VERIIFY[™] training methodology, i.e. Validate, Encapsulate and Rationalise raw data in Identifying Information for Future Yield. He is a HRD Corp certified trainer who shares his knowledge and experience culled from over 20 years of involvement in the software application training industry.

If you want to make sense of the data surrounding you; how your organisation's data can help you expand or cut down areas of expenses; or simply move up the corporate ladder by being ahead in terms of interpreting raw data, the Interpreter will be able to assist by mapping the data into a spreadsheet format like Microsoft Excel and performing various business process analysis.

Excel is the most common spreadsheet used in an office environment. While most are familiar with Excel, only a handful know the art of extracting data from a database; or converging raw data into information using Excel's built-in tools. This is where the Interpreter excels in showing the many ways of doing this.

OBJECTIVES

LEVEL

This programme seeks to help you:

- Understand the capabilities of spreadsheets and how best to use them for reporting and simple data analysis
- Apply Excel's built-in functions and features to gather useful information from raw data
- Gain a good understanding of data analysis and how it can be applied at work

PROGRAMME OUTLINE

- **BASICS & FORMATTING WORKSHEETS**
- Creating and modifying a worksheet Understanding AutoFit, AutoFill, and
- AutoComplete
- Understanding formatting of numbers (IC No, leading zeros, etc.)Changing cell formatting
- Applying numeric formats
- Implications of different numeric formats
- Changing data alignment Moving around a sheet using the
- double-click approach
- Shortcut keys to accomplish tasks
- auickly Other techniques to enhance the
- appearance of a spreadsheet
- Shortcut keys to display date and time Displaving various date and time
- formats and customising them Understanding Accounting & Currency
- formats to ensure consistency in reporting

WORKING WITH FORMULAS

- Basics of the SUM, MAX, MIN, AVERAGE and COUNT formulas
- Incorporating above formulas within different sheets and files
- Converting numbers to percentages using formulas
- Updating Date and Time automatically within reports
- Counting cells with and without data
- Combining functions within functions Highlighting specific values using
- Conditional Formatting
- Applying simple functions within Conditional Formatting to trigger wanted/unwanted values

FUNCTIONS FOR DATA ANALYSIS

- Why data analysis? · How can data analysis help in decisionmaking process?
- · Simplifying the scope of data analysis using Exce
- Introducing the IF function for "what-if" analysis
- Combining IF function based on given conditions with other functions
- Introducing SUMIF, AVERAGEIF, and COUNTIF functions for single conditions on data analysis
- Application of above functions in areas of data analysis

CREATING CHARTS FOR VISUAL DISPLAYS

- · Importance of visual displays How to select the "right" type of chart
- based on data presented All about charts and how they help
- you analyse data for better business decision-making
- Understanding Pie Charts, Bar Charts, Column Charts, Bubble Charts, Line Charts, Combination Charts
- Modifying chart layouts
- Converting one type of chart to another Customising Combo charts by changing
- the Markers Adding images to Markers in different ways

WHO SHOULD ATTEND

Anyone wanting to understand spreadsheets and apply Excel's built-in functions and formatting features

Pre-requisite: A basic understanding of Excel and its capabilities together with some knowledge of spreadsheets.

OTHER EXCEL FEATURES

- Inserting comments Printing comments separately Sorting data:
- > Identify primary data Perform case sensitive sorting
- Other sort options Applying headers and footers
- Modifying page properties
- Adding background pictures
- Removing error messages from being printed
- Printing header rows/columns
- Changing default options

PIVOT TABLE

- Introduction to Pivot Table
- Analysing headers of database and how best to retrieve information from it
- Enhancing appearance of Pivot Table Performing data analysis using
- Pivot Table Customising formats of Pivot Table data
- Sorting data within Pivot Table
- Performing date analysis by Year, Quarter, and Month
- Applying conditional formatting within Pivot Table

ANALYSING RAW DATA

- Basic analysis of raw data using functions and features covered above Case Study on Introduction to
- Data Analysis
- · Presenting data using functions and charts

Participants are required to bring their own laptop installed with Microsoft Excel 2010/2013/2016.

OBJECTIVES

This programme seeks to help you:

LEVEL Z

- Gain the skill to perform projections, apply What-if calculations, create simple payroll system, look up specific values from raw data, and perform advanced calculations by combining functions in Excel
- Understand the use of logical functions, solve loan calculation problems, forecast future values for sales projections, and format text data

PROGRAMME OUTLINE USEFUL TIPS, TECHNIQUES, AND FEATURES OF EXCEL

- Learn various shortcuts and techniques in formatting
- Validate a specific range of cells
- Applying various aspects of Conditional Formatting
- Password protect a range of cells and workbook
- Applying Filters, Advanced Filter, and Reapply option
- Verifying filtered results against formulas and trouble-shooting unwanted results
- Performing calculations using subtotals
- Understanding arguments within the Subtotal function
- Converting text to numbers from external data file
- Absolute Cell Referencing (appropriate use of the \$ sign in formulas)
- Implication of \$ sign within reference cells when copying and applying formulas
- Applying Custom Lists
- Changing text orientation
- Creating a watermark
- Various Format Code options
- Displaying large numbers in "K" and "M"
 Changing default settings

· onanging default settings

- UNDERSTANDING THE USE OF LOGICAL FUNCTIONS
- Comparing and analysing sets of data
 Applying the IF statement for
- Appring the instatement for comparison purposes
 Use of logical statements based on
- Ose of logical statements based of mathematical logic and symbols
 Benefits of IF statement and how other
- functions can be used within it
 Use of Conditional Formatting within
- F statement
 Applying the Nested IF statement for
- more than a single condition

SEARCHING SPECIFIC VALUES USING LOOKUP FUNCTION

- Concept of database
- How to set up a database?
 Difference between horizontal and variable based databases
- vertical based databases
 Applying VLOOKUP (vertical) and HLOOKUP (horizontal) functions to
- search specific values from a databaseApplication of VLOOKUP in calculating
- bonuses for multi-tier payment schemeCreating drop-down list option within
- lookup valueSpecifying conditional formatting rules to select entire row based on selection
- of lookup value Converting existing nested IF table to a

VLOOKUP table

ANALYSING DATA USING PIVOT TABLE

- Use of Pivot Table
- Updating and modifying Pivot Table
- Changing calculated fields in Pivot Table
 Rearranging fields in a Pivot Table
- Explaining the report layout options
- Using the report filters feature
- Using Top 10 & Date Filters
- Handling blank cells

Sorting a Pivot Table

WHO SHOULD ATTEND

Anyone with a basic understanding of Excel wanting to know the finer points in formatting and solving calculation issues using Excel's functions and features.

Pre-requisite: A basic understanding of formatting numbers and applying functions such as SUM, MAX, MIN, AVERAGE, COUNT, simple IF statements, and knowledge of creating charts.

- Formatting a Pivot Table
- Creating custom formats
- Adding formulas to a Pivot Table
- Changing a calculation in a Pivot TableCounting with a Pivot Table
- Applying slicers and timeline within Pivot Table
- Creating Pivot Charts as dashboards
 Using data model to link multiple
- databases into a single table
 Creating relationships to link common fields within databases

DATA CLEANSING TECHNIQUES USING TEXT FUNCTIONS

- Checking for duplicate and redundant records
- Comparing contents of one cell with another
 Replacing specific text with another
- Removing unwanted spaces within a cell content
- Combining contents of various cells into a single cell
- Finding length of text within a cell
- Repeating a character numerous times
- Converting text to upper and lower cases
- DATE AND TIME CALCULATIONS
- Understanding how Excel handles date calculations
- Limitation of dates in Excel
- Calculating differences of two dates and converting it to Years, Months
- and DaysUnderstanding various date formats
- and performing calculations accordinglyDisplaying time in 12, 24 and beyond
- Displaying time in 12, 24 and beyond 24 hours format
 Time based calculations based on data
- Inne based calculations based on data
 provided

FORECASTING AND ANALYSIS USING STATISTICAL FUNCTIONS

- Performing various "What-if" calculations
- Understanding types of charts for forecasting of linear and exponential growth
 Second and exponential
- Forecasting future values based on previous results (e.g. sales forecasting, market analysis, etc.)

UNDERSTANDING DIFFERENCES IN LOAN CALCULATIONS

- Long and short term loan calculations Paying off loans faster
- Calculating interest and principal
- portion of loan repaymentsApplying Goal Seek for various What-If
- analysisPerforming calculations within Data
- Tables for two input tables Interpreting results of loan analysis
- OTHER EXCEL FUNCTIONS
- Ranking variables in descending or ascending order
- Performing calculations based on a given condition
- Transposing of data and how Excel handles the calculations
- Password protecting range of cells based on different options used

OBJECTIVES

LEVEL

This programme seeks to help you:

 Understand the more advanced functions and features Excel offers WHO SHOULD ATTEND

Proficient Excel users wanting to learn

when and how to apply Excel's more

Pre-requisite: An understanding of

functions. Advisable to have attended

the Certificate in Data Analytics for

Excel (Level 2).

formatting numbers & text, and applying

Management Reporting Using Microsoft

· Creating Histograms within built-in

What are Excel dashboards?

Managing functions to create

Analysing distribution of data using

Improving data visualisations using

Mastering the OFFSET function for

CREATING POWERFUL FORMULAS

Using Format Code options within

Generating random text data and

Creating a lucky draw system to

is accepted within selected cells

Applying Goal Seek in a What-if

Converting text to numbers and vice

Using various Date and Time functions

Using CHOOSE, INDEX, MATCH, and

Looking up data on the left side as

Format control options used within

Using the RAND and RANDBETWEEN

randomise lucky winners

formulas in cells to highlight specific

Using the TEXT function for formatting

Using Text and Logical functions within

Data Validation to ensure specific data

Optimising drop down list options within

Add-In feature

dashboards

dashboards

results

display of data

analysing it

analysis

versa

OFFSET functions

compared to VLOOKUP

Form Control buttons

Ranking & sorting formulas General purpose IFERROR function

Addressing date calculations

Microsoft Excel 365

Determining the sign of a number

incorporating off days and public

Application of new functions within

Statistical analysis using statistical

using statistical functions

> Benefits of using statistical

functions for analysing data

APPLYING ADD-INS IN EXCEL & CASE

features and functions in Excel

Highlighting weekends, off days,

and verifying calculations of date

calculations within the case analysis

Combining functions and features within

case analysis and concluding from data

performing case analysis

Applying Add-Ins to use non-standard

Generating raw data (numbers, text,

combination of text and numbers) and

> Checking for distribution of raw data

Interpreting the analysis of raw data

upon using statistical functions

functions

holidays

functions

ANALYSIS

dashboard objects

dynamic chart purposes

charts

advanced functions and features.

- Perform various statistical analysis using the statistical functions
 Analyse data using some of the more
- advanced built-in features
- Comprehend the more advanced text functions and its applications
- Perform date and time calculations for a given period or time
- Incorporate multiple charts and understand the use of histogram
- Learn to use and invoke the Add-Ins
 How best to apply a What-if analysis using the Solver

PROGRAMME OUTLINE SUMMARISING & ANALYSING DATA WITH ADVANCED FUNCTIONS

- Application of IF function for multiple conditions
- Alternative functions to VLOOKUP and COUNTIF in performing analysis
 Difference methods of setting up tables

in performing database calculations

selecting ranges and comparing against

Applying multiple condition functions to

Mastering database functions with

criterias to extract information from

databases and compare answers with

Advanced text functions and how they

Converting one unit of measurement

to another (e.g. celsius to fahrenheit,

ADVANCED FEATURES OF EXCEL FOR

performing best, worst, and most likely

Working with various aspects of tables

Finding cells containing data for a

Highlighting specific row and every

Creating a drop down list to display

multiple options within single cell

How to trigger single valued data if

wrong option is selected from drop

· Applying Solver for What-If analysis

looking for optimised solution)

Visualising data using customised

Comparing Dates with Conditional

Highlighting cells by applying formulas

Adding Formulas to Conditional

within Conditional Formatting

Linking formulas in Conditional Formatting with records within

Database to highlight specific

CREATING COMPLEX ADVANCED

CHARTS TO DASHBOARDS

Creating Gantt Charts

Working with Histograms

Comparison and highlighting of dates

in ageing reports using Conditional

Data Bars, Colour Scales, and Icons

WORKING WITH ADVANCED

CONDITIONAL FORMATTING

(maximising profits, minimising cost, or

Preventing formulas from being

Applying Scenario Manager for

can be used to extract information from

Consolidating data from multiple

different ranges/worksheets

single cell value

perform data analysis

other function analysis

pounds to grams, etc.)

raw data

DATA ANALYSIS

situations

given period

other row

displayed

down list?

Formatting

Formatting

conditions

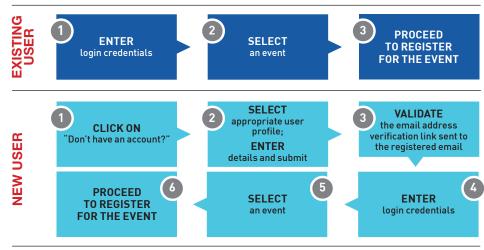
Formatting

Using Array based formulas for

Certificate in Data Analytics for Management Reporting Using Microsoft Excel

REGISTRATION PROCESS

- To view more events and download the full brochure, please visit: pd.mia.org.my
- Search and select the event
- Click 'Register' to experience the new system by continuing with the respective steps below:



For any assistance, please call (8.45am-5.30pm, Monday-Friday) MIA Help Desk @ 603-2722 9000

TERMS & CONDITIONS

PROGRAMME FEE

- Fee is payable to MALAYSIAN INSTITUTE OF ACCOUNTANTS
- Depending on the event, the fee includes course materials and/or lunch and/or tea breaks.
- Individual Registration: Full payment shall be made at the point of online registration.
- Corporate Registration: Full payment shall be made within thirty (30) days from the date of the Invoice or 1 day before the programme, whichever earlier.
- Admittance to the programme shall be granted only upon full payment as per the above requirement.

PAYMENT MODE

- Payment must be made through the electronic channels i.e. online payment via the MIA member service portal and electronic fund transfer (EFT).
- Payment by cash and cheque is NOT ACCEPTABLE effective from 1 January 2022.

HRD CORP (FOR CLAIMABLE EVENTS ONLY)

• MIA is an approved Training Provider registered under 'Institut Akauntan Malaysia' (MyCoID: 631967).

Employer's Obligations

- To ensure grant approval is obtained prior to event registration and to provide the Grant ID notification upon event registration.
- To make full payment to MIA as per the issued Invoice within 14 working days upon receipt of MIA's notification in the event the approved training fee is cancelled by HRDC due to non-compliance on the part of the participant or his/her employer or any valid reasons stipulated by HRDC.
- To settle the balance payment to MIA within 14 working days upon receipt of MIA's notification in the event only partial claim is approved by HRDC. MIA will provide copy of the original invoice and will not issue a new invoice for the balance amount.
- If employer has made payment prior to grant approval, a refund will be made to employer subject to reimbursement received from HRDC. Refund will be made upon receipt of duly completed employer's EFT Form.
- To provide required information and/or documents after completion of event for the purpose of HRDC Claim within 7 working days upon receipt of MIA's notification.

CANCELLATION

Should the participant decide to cancel his/her enrolment, a cancellation policy shall be applied as follows:

- For written cancellation received with minimum seven (7) days' notice from the date of the programme, no penalties will be imposed and full refund will be made to participants who have paid.
 For written cancellation received less than seven (7) days from the date
- For written cancellation received less than seven (7) days from the date
 of the programme, an administrative charge of 20% of the registration
 fee will be imposed. Unpaid registrations will also be liable for a 20%
 administrative charge.
- No refunds will be made for written cancellations received on the day of the programme or for participants who failed to join the programme. Unpaid registrations will also be liable for full payment of the registration fee.
- Replacing registered participants is not allowed.
- Paid registration that is cancelled can opt to transfer the paid amount to future event(s) after deducting any applicable administrative charges.
- The transfer request to future event(s) should be confirmed by Corporate/Individual within three (3) days after cancellation otherwise the cancellation will be confirmed with refund action. Transfer request will not be entertained after the refund is processed.

- Corporate/Individual is required to top-up the balance amount if the amount to be transferred to the future event is insufficient.
- Any excess amount after transfer will be refunded to the Corporate/ Individual's bank account as provided in the EFT form.
- Corporate/Individual is required to provide the EFT form each time when a refund is requested.

PARTICIPANT'S CLASSIFICATION AND INFORMATION Category: Corporate/Individual

- Please select the participant classification carefully as it determines the fee payable. No alteration will be allowed upon registration.
- The information on Corporate/Individual provided shall be deemed true and correct. No alteration will be allowed upon registration.

VERIFICATION OF ATTENDANCE

 All participants are required to present photo identification (NRIC, driving licence or company's ID card) at the point of registration prior to signing the registration list when attending the programme. Admittance may be denied upon failure to present photo identification.

CERTIFICATE OF ATTENDANCE AND CPE CREDIT HOURS

- Upon full attendance of the programme, participants will be issued an e-certificate of attendance. For this purpose, it is COMPULSORY to fill in the email address clearly.
- CPE credit hours will be credited into the MIA Member Services Portal within 14 days of the programme for participants who have complied with all terms and conditions stipulated herein.
- Participants will only be entitled to the CPE hours upon attending the entire duration of the programme. CPE hours will not be accorded for partial attendance.

COPYRIGHT

The materials of the programme shall not be disclosed or used in any manner, either wholly or partially against any other parties and/or used in any manner, either wholly or partially as a defence by you and/or any other parties under any circumstances. The participants are therefore prohibited from reproducing any materials of this programme. All copyright and/or intellectual property rights in any relevant materials produced in this Programme will remain with the party who produced such materials. MIA disclaims responsibility for the materials of this programme. Neither the MIA, its Council or any of its Boards or Committees nor its staff shall be responsible or liable for any claims, losses, damages, costs or expenses arising in any way out of or in connection with any persons relying upon the materials provided during the programme.

DATA PROTECTION

Information given by the participants to MIA is true, accurate and to the best of their knowledge. The participants have read and agreed with the Privacy Notice as stated on MIA's official website and therefore, allow MIA to collect, process, store and use the participants' data other than what is provided under the Personal Data Protection Act 2010.

EXCLUSION OF LIABILITY

This programme shall not constitute an endorsement of the speaker(s) by MIA and MIA shall not be liable for whatsoever circumstances arising from any engagement between the speaker(s) and the programme's participants. **DISCLAIMER**

Malaysian Institute of Accountants (MIA) reserves the right to change the speaker(s), date(s), time(s) and to cancel the programme should circumstances beyond its control arise. MIA shall not be responsible for any costs, damages or losses incurred by the participant due to the changes and/or cancellation. MIA also reserves the right to make alternative arrangements without prior notice should it be necessary to do so. Upon registering, you are deemed to have read and accepted the terms and conditions herein.

With immediate effect, enrolment for all CPE programmes will be STRICTLY VIA ONLINE REGISTRATION ONLY

PROGRAMME FEES

Level	Fees (RM)		
Level	Member	Non-member	
1 or 2 or 3	1,500.00	1,800.00	
* 1 & 2 or 2 & 3	2,850.00	3,420.00	
* 1, 2 & 3	4,050.00	4,860.00	

Preferred Payment: Pay with MIA-CIMB Affinity Credit Card.

Please tick where applicable:

Participant			Level	Total (RM)
1	2	3	Level	
			1	
			2	
			3	
			1&2	
			2&3	
			1, 2 & 3	
			·	

PROGRAMME DETAILS & REGISTRATION

LEVEL 1 : 15 & 16 November 2023 Connexion Conference & Event Centre @ The Vertical, Bangsar South, Kuala Lumpur

HRDC Training Programme No. : 10001226666

LEVEL 2 : 20 & 21 November 2023 Monday & Tuesday Wyndham Grand Bangsar Kuala Lumpur

HRDC Training Programme No. : 10001226364

LEVEL 3 : 22 & 23 November 2023 Wednesday & Thursday Wyndham Grand Bangsar Kuala Lumpur

Fax : 03 Email : sp Address : Ma De Un To Av No	2722 9294 2722 9009
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