

Karachi Branch Council 2022-24



Professional Training

Business & Data Analytics

Pro-Foundation Level (Batch 3)

Introduction:

BUSINESS & DATA ANALYTICS has now become the most demanding job of the 21st century. It helps businesses optimize their performances and reduce costs by identifying more efficient ways of doing business and by storing large amounts of data.

Businesses now have access to more data than ever before and they need Business and Data Analysts' help every step of the way, from the initial capturing of data to interpreting the meaning to make the best decisions based on the results.

Training's Pre-requisite:

- 1. No prior knowledge is required. Everything will start from scratch.
- 2. All you need to have is a good understanding capability of corporate/business data and a creative mindset for data-driven decisions.
- 3. Participants should carry their own laptops for working. Training is completely practical in an office environment.

Training's Contents:

Following concepts will be used in projects:

- 1. Variables
- 2. Data Types
- 3. Lists
- 4. For Loops
- 5. If, Else, Elif Statements, and Multiple Conditions
- 6. Dictionaries and Frequency Tables
- 7. Using Built-in Functions and Creating Own Functions
- 8. Arguments, Parameters, Debugging, and Multiple Return **Statements**
- 9. Returning Multiple Variables and Function Scopes

Who can attend?

- Training is designed for every professional belonging to Finance, Audit, Supply Chain, HR & Admin, Engineering, etc. and it is related to all types of industries.
- Professionals can join all over the world. Training is hybrid i.e., onsite, as well as online via Zoom/Google Classroom.

Training's Methodology:

- 1. Project-based hands-on learning.
- 2. Projects will be performed using real-world Datasets.

- 10. List Comprehensions and Lambda Functions
- 11. Map and filter
- 12. Data Analytics
- 13. Cleaning and Preparing Data
- 14. Working with Dates and Times
- 15. Data Extraction
- 16. Data Transformation and Analysis

Programme Details

DAY & DATE:

Saturay, 08 October 2022



TIMING:

Saturday: 6:30 pm to 8:30 pm I Sunday: 2:00 pm to 4:00 pm (PST)



VENUE:

Seminar Hall, ICMA Head Office, Gulshan-e-Igbal, Karachi



Group Joining Link: https://chat.whatsapp.com/IPLyINAuewPDAxdV8ciqhB

ICMA Applied D.S & A.I

Investment:

Description	Fee (PKR)	
ICMA Members/Qualified/Students:	10,800/- (Inclusive of Tax)	
ACCA, CIMA, ICAP, PIPFA and Other Professional Bodies:	11,300/- (Inclusive of Tax)	CPD: 18 HOURS
Others:	11,800/- (Inclusive of Tax)	

Pro-Intermediate Level (Batch 2)

Introduction:

BUSINESS & DATA ANALYTICS has now become the most demanding job of the 21st century. It helps businesses optimize their performances and reduce costs by identifying more efficient ways of doing business and by storing large amounts of data.

Businesses now have access to more data than ever before and they need Business and Data Analysts' to help every step of the way, from the initial capturing of data to interpreting the meaning to make the best decisions based on the results.

Training's Pre-requisite:

- 1. PRO-FOUNDATION LEVEL knowledge is required;
- 2. Participants need to have a good understanding capability of corporate/business data and a creative mindset for data-driven decisions;
- 3. Participants should carry their own laptops for working. Training is completely practical in an office environment.

Who can attend?

- Training is designed for every professional belonging to Finance, Audit, Supply Chain, HR & Admin, Engineering, etc. and it is related to all types of industries;
- Professionals can join all over the world. Training is hybrid i.e., onsite, as well as online via Zoom/Google Classroom.

Training's Methodology:

- 1. Project-based hands-on learning;
- 2. Projects will be performed using real-world Datasets.

Training's Contents:

Following concepts will be used in projects:

- 1. Exploring Data with Pandas
- 2. Data Cleaning
- 3. Line Graphs and Time Series
- 4. Scatter Plots and Correlations
- 5. Bar Plots, Histograms, and Distributions
- 6. Pandas Visualizations and Grid Charts
- 7. Relational Plots and Multiple Variables
- 8. Design for an Audience
- 9. Storytelling Data Visualization
- 10. Gestalt Principles and Pre-Attentive Attributes
- 11. Matplotlib Styles: FiveThirtyEight Case Study

- 12. Data Aggregation
- 13. Combining Data Using Pandas
- 14. Transforming Data with Pandas
- 15. Working with Strings in Pandas
- 16. Working With Missing and Duplicate Data
- 17. Regular Expression
- 18. Working with Missing Data
- 19. Fuzzy Language in Data Analytics
- 20. Communicating Results
- 21. Business Metrics

Programme Details

DAY & DATE:

Friday, 07 October 2022



TIMING:

Friday: 6:30 pm to 08:30 pm | Sunday: 11:00 am to 1:00 pm (PST)



VENUE:

Seminar Hall, ICMA Head Office, Gulshan-e-Iqbal, Karachi



Group Joining Link: https://chat.whatsapp.com/CaASxudHIUr5WMDQDXyTHU

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Investment:

Description	Fee (PKR)	
ICMA Members/Qualified/Students:	11,800/- (Inclusive of Tax)	
ACCA, CIMA, ICAP, PIPFA and Other Professional Bodies:	12,300/- (Inclusive of Tax)	CPD: 18 HOURS
Others:	12,800/- (Inclusive of Tax)	

Pro-Advance Level (Batch 1)

Introduction:

BUSINESS & DATA ANALYTICS has now become the most demanding job of the 21st century. It helps businesses optimize their performances and reduce costs by identifying more efficient ways of doing business and by storing large amounts of data.

Businesses now have access to more data than ever before and they need Business and Data Analysts' to help every step of the way, from the initial capturing of data to interpreting the meaning to make the best decisions based on the results.

Training's Pre-requisite:

- 1. PRO-INTERMEDIATE LEVEL knowledge is required;
- Participants need to have a good understanding capability of corporate/business data and a creative mindset for data-driven decisions;
- 3. Participants should carry their own laptops for working. Training is completely practical in an office environment.

Classroom. **Training's Methodology:**

Who can attend?

industries;

- 1. Project-based hands-on learning;
- 2. Projects will be performed using real-world Datasets.

Training is designed for every professional belonging

to Finance, Audit, Supply Chain, HR & Admin,

Engineering, etc. and it is related to all types of

• Professionals can join all over the world. Training is

hybrid i.e., onsite, as well as online via Zoom/Google

Training's Contents:

Following concepts will be used in projects:

- 1. Introduction to the Command Line
- 2. The Filesystem
- 3. Modifying the Filesystem
- 4. Glob Patterns and Wildcards
- 5. Users and Permissions
- 6. Getting Help and Reading Documentation
- 7. File Inspection
- 8. Text Processing
- 9. Redirection and Pipelines
- 10. Standard Streams and File Descriptors
- 11. Working with Programs
- 12. Command Line Python Scripting

- 13. Working with Jupyter console
- 14. Piping and Redirecting Output
- 15. Data Munging Using the Command Line
- 16. Data Cleaning and Exploration Using Csvkit
- 17. Introduction to SQL
- 18. Summary Statistics
- 19. Group Summary Statistics
- 20. Subqueries
- 21. Joining Data in SQL
- 22. Intermediate Joins in SQL
- 23. Building and Organizing Complex Queries

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24. Table Relations and Normalization

Programme Details

DAY & DATE:

Thursday, 06 October 2022



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TIMING:

Thursday: 6:30~pm to 8:30~pm I Sunday: 4:00~pm to 6:00~pm (PST)





Seminar Hall, ICMA Head Office, Gulshan-e-Iqbal, Karachi



Group Joining Link: https://chat.whatsapp.com/DNJtzvJFnGG7z2zmHr4mdo

Investment:

Description	Fee (PKR)	
ICMA Members/Qualified/Students:	12,800/- (Inclusive of Tax)	
ACCA, CIMA, ICAP, PIPFA and Other Professional Bodies:	13,300/- (Inclusive of Tax)	CPD: 18 HOURS
Others:	13,800/- (Inclusive of Tax)	

Pro-Expert Level

Introduction:

BUSINESS & DATA ANALYTICS has now become the most demanding job of the 21st century. It helps businesses optimize their performances and reduce costs by identifying more efficient ways of doing business and by storing large amounts of data.

Businesses now have access to more data than ever before and they need Business and Data Analysts' to help every step of the way, from the initial capturing of data to interpreting the meaning to make the best decisions based on the results.

Training's Pre-requisite:

- 1. PRO-ADVANCE LEVEL knowledge is required;
- 2. Participants need to have a good understanding capability of corporate/business data and a creative mindset for data-driven decisions;
- 3. Participants should carry their own laptops for working. Training is completely practical in an office environment.

Who can attend?

- Training is designed for every professional belonging to Finance, Audit, Supply Chain, HR & Admin, Engineering, etc. and it is related to all types of industries;
- Professionals can join all over the world. Training is hybrid i.e., onsite, as well as online via Zoom/Google Classroom.

Training's Methodology:

- 1. Project-based hands-on learning;
- 2. Projects will be performed using real-world Datasets.

Training's Contents:

Following concepts will be used in projects:

- 1. Sampling
- 2. Variables in Statistics
- 3. Frequency Distributions
- 4. Visualizing Frequency Distributions
- 5. Comparing Frequency Distributions
- 6. The Mean
- 7. The Weighted Mean and the Median
- 8. The Mode
- 9. Measures of Variability
- 10. Z-scores
- 11. Estimating Probabilities
- 12. Probability Rules
- 13. Solving Complex Probability Problems

- 14. Permutations and Combinations
- 15. Conditional Probability: Fundamentals
- 16. Conditional Probability: Intermediate
- 17. Bayes Theorem
- 18. The Naive Bayes Algorithm
- 19. Significance Testing
- 20. Chi-Squared Tests
- 21. Multi-Category Chi-Squared Tests
- 22. Introduction to Git
- 23. Git Remotes
- 24. Git Branches
- 25. Merge Conflicts

Programme Details

DAY & DATE: Launching: November, 2022



VENUE: Seminar Hall, ICMA Head Office, Gulshan-e-Iqbal, Karachi



Group Joining Link: https://chat.whatsapp.com/EaZZzDaTpFE7ATttyUF9H0

ICMA Applied D.S & A.I



Investment:

Description	Fee (PKR)	
ICMA Members/Qualified/Students:	13,800/- (Inclusive of Tax)	
ACCA, CIMA, ICAP, PIPFA and Other Professional Bodies:	14,300/- (Inclusive of Tax)	CPD: 18 HOURS
Others:	14,800/- (Inclusive of Tax)	

With warm regards

Hakim Ali Jatoi, ACMA Secretary Karachi Branch Council

Azeem Hussain Siddiqui, FCMA Chairman Karachi Branch Council Awais Yasin, FCMA Chairman, CPD Committee National Council