Certificate in Data Science (CDS)

1 – 5 August 2027
Amman (Jordan)



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Introduction

In today's data-driven era, Data Science has become one of the most in-demand disciplines across industries aiming to enhance analytical capabilities and enable evidence-based decision-making.
The Certificate in Data Science CDS offers a practical and comprehensive training framework designed to equip professionals with the skills to extract actionable insights from large datasets using advanced tools and methods.
This program targets executives, team leaders, and professionals from various departments within both government and private sector organizations across the MENA region.
It is also ideal for early- to mid-career employees seeking specialization and senior management looking to adopt digital transformation and leverage data for strategic value.
The course offers a balanced mix of theoretical knowledge and hands-on practice, positioning it as a strategic step toward building future-ready, data-driven organizations.

Course Objectives

- Understand the core concepts of data science.
- Explore the data science project lifecycle from data collection to model deployment.
- Use data analysis tools for data cleaning and exploration.
- Apply machine learning algorithms to real-world datasets.
- Build predictive models with practical business applications.
- Interpret and visualize results through interactive dashboards.
- Evaluate and optimize model performance.
- Integrate data science outputs into organizational decision-making.

Course Outlines

Day 1: Introduction to Data Science

- What is data science and why it matters.
- Key skills required for data science roles.
- Overview of the data lifecycle.
- Types and structure of data.
- Introduction to common data science tools and languages.
- Hands-on: analyzing basic datasets.



Day 2: Data Analysis and Cleaning

- Exploratory Data Analysis EDA techniques.
- Identifying and handling missing values.
- Detecting and processing outliers.
- Data transformation and feature engineering.
- Visualizing patterns using charts and graphs.
- Practical session using industry-standard tools.

Day 3: Modeling and Predictive Algorithms

- Choosing the right model based on data type.
- Applying regression, classification, and clustering algorithms.
- Splitting data into training and test sets.
- Evaluating accuracy and recall metrics.
- Addressing modeling issues: bias, variance, overfitting.
- Case study: building a business prediction model.

Day 4: Data Visualization and Business Insights

- Designing interactive dashboards.
- Using tools like Python or Power BI for visualization.
- Creating executive-level reports.
- Presenting insights to stakeholders.
- Telling stories through data.
- Framing recommendations based on findings.

Day 5: Final Assessment and Organizational Integration

- Reviewing each phase of the hands-on project.
- Presenting and critiquing participant models.
- Strategies to embed data science in operations.
- Providing individual development plans.
- Final test to assess learning outcomes.
- Open feedback and discussion session.



Why Attend this Course: Wins & Losses!

- Build strong data literacy and analytical capabilities.
- Support data-informed decision-making.
- Improve operational efficiency with automated analytics.
- Enhance professional value and career growth.
- Apply data tools directly in your workplace.
- Stay current with global digital trends.
- Foster collaboration between data-driven departments.
- Lead innovation through insight generation.

Conclusion

The Certificate in Data Science CDS offers a gateway to a smarter, data-informed future.It goes beyond teaching tools—it cultivates analytical thinking and evidence-based decision-making essential for modern organizations.

This program provides a full-cycle learning journey, from data acquisition to model deployment, all tailored to business needs.Whether you're in marketing, HR, finance, or oil & gas, this course equips you to better understand your market, improve performance, and make strategic, data-driven decisions.

