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Course Name

Certified Big Data and Data Analytics Practitioner (CBDDAP)

Sector Name

Internationally Certified Training Programs

Document Type

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Course Introduction

Big Data and advanced analytics have become essential for organizations seeking to improve decision-making, enhance customer experience, optimize operations, and build sustainable competitive advantage. As data volumes grow rapidly and business expectations rise, organizations need professionals who can understand big data concepts, manage analytics processes, and convert complex data into actionable insights.

To meet this growing demand, **BOOST** Consulting & Training has developed the Certified Big Data and Data Analytics Practitioner (CBDDAP) program. This course equips participants with practical knowledge and applied skills in big data, data analytics, and insight generation in a business context.

The program covers the end-to-end analytics lifecycle, including data collection, preparation, analysis methods, visualization, interpretation, and communicating results to stakeholders. It also introduces key big data technologies and modern analytics approaches while emphasizing business value, governance, and practical implementation.

By the end of the program, participants will be able to support analytics initiatives, work effectively within big data environments, and deliver insights that drive performance and strategic outcomes.

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Target Audience

- ✓ Business analysts and data analysts
- ✓ Business intelligence and reporting professionals
- ✓ IT professionals supporting data platforms
- ✓ Digital transformation and innovation team members
- ✓ Managers and decision-makers who work with data and analytics teams
- ✓ Risk, finance, marketing, and operations professionals using data insights
- ✓ Professionals transitioning into data analytics or big data roles

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Learning Objectives

- ✓ Understand big data concepts, characteristics, and analytics use cases across industries
- ✓ Explain the data analytics lifecycle from business problem definition to actionable insights
- ✓ Identify and prepare data for analytics, including cleaning, transformation, and integration concepts
- ✓ Apply descriptive, diagnostic, predictive, and prescriptive analytics approaches
- ✓ Understand core big data platforms and technologies such as data lakes and distributed processing concepts
- ✓ Use analytics techniques to extract patterns, trends, and insights from large datasets
- ✓ Develop dashboards and visualizations to communicate insights clearly and effectively
- ✓ Apply data governance, data quality, and ethical considerations within analytics initiatives
- ✓ Support the implementation of analytics projects through structured planning and stakeholder engagement

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Course Outline

✓ DAY 01

Big Data Fundamentals and Analytics Lifecycle Overview

- ✓ Evolution of data and the rise of big data
- ✓ Characteristics of big data (volume, velocity, variety, and more)
- ✓ Business drivers and analytics use cases across industries
- ✓ Types of analytics: descriptive, diagnostic, predictive, and prescriptive
- ✓ The end-to-end data analytics lifecycle
- ✓ Translating business problems into analytics questions

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Course Outline

✓ Day 02

Data Preparation, Data Cleaning, and Exploratory Data Analysis (EDA)

- ✓ Data sources: structured, semi-structured, and unstructured data
- ✓ Data collection and integration concepts
- ✓ Data quality challenges and data cleaning techniques
- ✓ Data transformation and preparation fundamentals
- ✓ Introduction to exploratory data analysis (EDA)
- ✓ Identifying patterns, trends, and anomalies in data

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Course Outline

✓ Day 03

Analytics Techniques: Descriptive, Diagnostic, and Predictive Analytics

- ✓ Descriptive statistics and summary analysis
- ✓ Diagnostic analytics and root cause exploration
- ✓ Introduction to predictive analytics and forecasting concepts
- ✓ Basic concepts of machine learning and modeling
- ✓ Interpreting model outputs and limitations
- ✓ Turning analytical results into business insights

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Course Outline

✓ Day 04

Big Data Platforms, Visualization, and Insight Communication

- ✓ Overview of big data architectures and data lakes
- ✓ Distributed processing and cloud-based analytics environments (conceptual)
- ✓ Data visualization principles and best practices
- ✓ Designing dashboards and management reports
- ✓ Storytelling with data for business stakeholders
- ✓ Avoiding common visualization and interpretation mistakes

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Course Outline

✓ Day 05

Analytics Implementation, Governance, Use Cases, and Practical Workshop

- ✓ Planning and managing analytics projects
- ✓ Roles and collaboration between business and technical teams
- ✓ Data governance, privacy, and ethical use of data
- ✓ Measuring analytics value and performance impact
- ✓ Industry case studies and real-world applications
- ✓ Practical workshop: applying the analytics lifecycle to a business scenario

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 7, 2026	Sept. 11, 2026	5 days	4250.00 \$	UAE , Dubai

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