

# Certified Big Data Foundation (CBDF)

## COURSE CODE: CBDF

LEVEL: Basic to Intermediate

LANGUAGE: Bahasa & English

## ABOUT BIG DATA FOUNDATION CERTIFICATION

GSDC's Big Data Foundation Certification is aimed towards sharing a deep understanding of all the basic fundamentals of Big Data. Big data is a field that treats ways to analyze, systematically extract information from, or otherwise deal with data sets that are too large or complex to be dealt with by traditional data-processing application software. Data with many cases (rows) offer greater statistical power, while data with higher complexity (more attributes or columns) may lead to a higher false discovery rate. Big data challenges include capturing data, data storage, data analysis, search, sharing, transfer, visualization, querying, updating, information privacy, and data source. Big data was originally associated with three key concepts: volume, variety, and velocity. When we handle big data, we may not sample but simply observe and track what happens. Therefore, big data often includes data with sizes that exceed the capacity of traditional software to process within an acceptable time and value. Hence proved, candidates of this certification will have their hands full with Big Data Fundamentals, Big Data Sources, Data Mining: Concepts and Tools, Big Data Technologies.

## CERTIFIED BIG DATA FOUNDATION OBJECTIVES

Certified Big Data Foundation certification shares a deep understanding of:

- Explain Big Data, its origin, and its characteristics.
- Discuss the tools applicable to Big Data processing.
- Explain data mining.
- Discuss the popular Big Data technologies - Hadoop and MongoDB.
- Discuss the Big Data projects and the main players involved.
- Identify and obtain relevant datasets when looking at a business problem.
- Install and manage Big Data processing environments based on Hadoop or MongoDB at a departmental level.

## COURSE DURATION

5 days (9am—5pm)

Tea Breaks: 10:30am & 3:30pm

Lunch: 1:00pm-2:00pm

**Note:** Please contact our office for Training Date or visit our website for details ([www.zohlgroup.com/mdc](http://www.zohlgroup.com/mdc))

## METHODOLOGY

This program will be conducted with:

- Interactive Lectures using PowerPoint presentation
- Discussions
- Practical Exercise
- Case Study
- Video Presentation

## TARGET AUDIENCE

- Software Engineers
- Application Developers
- Marketing Experts
- IT Architects
- Finance Specialists
- System Administrators
- Technical Recruiters
- Business Analysts
- Technical Support Specialists



## LOCATION

ONLINE and/or Mindset Discovery Center™@ZOHL, M2-6-08, Level 6, 8trium Tower 2, Bandar Sri Damansara, Kuala Lumpur (other Regions please contact our office)

## KEY TAKEAWAYS

Participants of Certified Big Data Foundation Certification will be able to achieve the following:

- Prove your Big Data skills & understanding.
- Gain an in-depth understanding of Big Data & its implementation.
- Implement your skills in any Big Data applications.
- Get Acknowledged as a Big Data Professional worldwide.

## PRE-REQUISITES

There are no formal prerequisites for the exam, but knowledge of Hadoop and MongoDB will help to understand the concepts.



Customized In-House Training Program is available in the following areas:

Accounting & Finance | Administrative Skills | Career Development | Human Resources | Personal Development | Sales & Marketing | Leadership & Management | Workplace Essentials | Digital & Social Media Marketing | Cust Svc | SCM | Entrepreneurship | Soft Skills | HSE | Engineering | Telecoms | ICT | ISO | PM | TQM

CALL US FOR DETAILS or VISIT OUR WEBSITE AT [WWW.ZOHLGROUP.COM](http://WWW.ZOHLGROUP.COM)

Sebarang pertanyaan sila hubungi Cik Niesa

ZOHL Consultancy Sdn Bhd (332967-D) (SST ID: W10-1810-32000429)

M2-15-02, Level 15, 8trium Tower 2, Jalan Cempaka SD 12/5

Bandar Sri Damansara, 52200 Kuala Lumpur

T: 03.6279.9276 F: 03.6279.0663 HP: 013.398.1038 E: [training@zohlgroup.com](mailto:training@zohlgroup.com)

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[www.zohlgroup.com](http://www.zohlgroup.com)

## COURSE CONTENT

### Module 1. Big Data Introduction

- Big Data - History, Overview, and Characteristics
- Definition
- Benefits
- Characteristics

### Module 2. Big Data Technology - Overview

- Hadoop - Introduction, Usage, Concepts
- MongoDB - Introduction, Features, Concepts

### Module 3. Big Data - Privacy & Ethics

- Privacy - Compliance
- Privacy - Challenges
- Privacy - Approach
- Ethics

### Module 4. Sources for Big Data

- Enterprise Data Sources
- Enterprise Systems
- Oracle
- SAP
- Microsoft
- Data Warehouses
- Unstructured Data
- Metadata

### Module 5. Social Media Data Sources

- Introduction
- Facebook - Introduction, Public Feed API, Keyword Insights API, Graph API
- Twitter - Introduction, Streaming APIs, REST APIs
- Other Social Media Sources

### Module 6. Public Data Sources

- Introduction
- Weather
- Economics
- Finance
- Regulatory Bodies

### Module 7. Data Mining - Concepts and Tools

- Data Mining - Introduction
- Types of Data Mining - Overview
- Classification
- Association
- Clustering
- Weka
- Modules of Weka Applications
- KNIME
- R Language

### Module 8. Big Data Technologies - Hadoop

- Introduction
- Main Components of Hadoop
- Additional Components of Hadoop
- How to Install and Configure
- Map Reduce

### Module 9. Data Processing with Hadoop

- Introduction
- Twitter Sentiment Analysis - Overview & Algorithm
- Network Log Analysis - Overview & Algorithm

### Module 10. Big Data Technologies - MongoDB

- MongoDB Fundamentals
- Install & Configure
- Introduction
- Replication
- Sharding
- Sharding and Replication
- MongoDB Ecosystem - Languages and Drivers
- MongoDB Ecosystem - Hadoop Integration
- MongoDB Ecosystem - Tools

### Module 11. Document Databases

- Introduction
- Documents
- Document Design Considerations
- Fields

### Module 12. Data Modelling with Document Databases

#### Introduction

- Twitter Sentiment Analysis with Algorithm
- Network Log Analysis with Algorithm

### Question & Answer Session

### Examination

- Ensure that you have filled up the basic details.
- This exam consists of 40 multiple-choice questions.
- Candidates need to score a minimum of 65% of the total marks (i.e. 26 out of 40) to pass this examination.
- The total duration of this examination is 90 minutes.
- Candidate should Tick against only one correct answer in Multiple Choice Questions.
- There is no negative marking system applicable to this examination.
- In case the participant does not score passing % then they will be granted a 2nd attempt at no additional cost. Re-examination can be taken up to 30 days from the date of the 1st exam attempt.

### End of Program House-Keeping

- Program De-Briefing
- Feedback Questionnaire
- Closing Ceremony

Note: Course Content subject to further review

### COURSE FEE

**RM4,240** per person incl. 6% SST  
(Fee inclusive of Course Material, Attendance Certificate, Professional Certificate, Exam Fees and Meals)

### CERTIFICATE

Participants will be issued a Certificate of Attendance/Accomplishment upon successful completion of this training program. Full attendance is a pre-requisite.

Customized In-House Training Program is available in the following areas:

Accounting & Finance | Administrative Skills | Career Development | Human Resources | Personal Development | Sales & Marketing | Leadership & Management | Workplace Essentials | Digital & Social Media Marketing | Cust Svc | SCM | Entrepreneurship | Soft Skills | HSE | Engineering | Telecoms | ICT | ISO | PM | TQM

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IT SERIES

# Certified Big Data Foundation (CBDF)

HRDF

[www.zohlgroup.com](http://www.zohlgroup.com)

In addition, a **Professional Certificate** from **GSDC** will also be awarded to those who pass the Exam.

### WHY GSDC CERTIFICATION?

The Global Skill Development Council (GSDC) is an independent, vendor-neutral, international credentialing and certification organization for the emerging technologies:

- Advisory board members and SMEs are from around the world, drawn from different specializations.
- Supported by the world's most esteemed thought leaders from Yale, MIT, Stanford, Wharton, and Harvard.
- Hub of Trending Technologies and framework certifications.
- Content curated by Industry's best Subject matter experts.
- Webinars and Conferences.
- Training Partners Across The Globe. For Malaysian market ZOHL Consultancy Sdn Bhd has been appointed as one of the GSDC Training Partner.

### HRDF SBL KHAS

Claimable under HRDF SBL KHAS Scheme (for Companies contributing to HRDF)

### REGISTRATION METHOD

1. **Online:** <https://zohlgroup.com/mdc/certification-programs-registration/> **OR**
2. Download this brochure at: <https://zohlgroup.com/mdc/certification-programs/> and fill up the required information. Then please fax to: 03.6279.0663
3. Or contact our office at: 03.6279.9276 / 013.398.1038

### FACILITATOR

**Dr Shaiful J. Hashim** is currently an Associate Professor in the Department of Computer and Communication Systems Engineering, Faculty of Engineering, Universiti Putra Malaysia (UPM). He received his Ph.D from Cardiff University, UK (2011), M.Sc from National University of Malaysia (2003) and B.Eng from University of Birmingham, UK (1998) in the field of Electrical and Electronics Engineering. He is one of the winners of the prestigious IEEE MTT-11 2008 Creativity and Originality in Microwave Measurements Competition. His research interests are cloud computing, Internet of Things (IoT), network security and non-linear wireless measurement system. He has contributed to more than 100 technical and research publications.

\*Note: Trainer availability is subject to change



### REGISTRATION FORM

Participant#1: \_\_\_\_\_

Position: \_\_\_\_\_

IC No: \_\_\_\_\_

Participant#2: \_\_\_\_\_

Position: \_\_\_\_\_

IC No: \_\_\_\_\_

Training Date: \_\_\_\_\_

Training Venue: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Position: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Company Website: \_\_\_\_\_

### PAYMENT

CASH: RM \_\_\_\_\_ OR

CHEQUE No: \_\_\_\_\_

Please fax your bank-in slip to 03.6279.0663 or scan your bank-in slip and email to [training@zohlgroup.com](mailto:training@zohlgroup.com)

\*Please make your cheque payable to:

**ZOHL Consultancy Sdn Bhd**



Account No:  
**514392303373**

Signature & Company Stamp

### Note:

- Date & venue of seminar subject to changes
- Payment must be made 7 days before the training date
- Registration cancelled 7 days prior to the event is subject to RM100 service charge per participant
- No refunds for notice received less than 7 days prior to the event. A substitution may be made at any time at no extra charge.
- Program content may change subject to revision by our consultants from time to time.
- Full fee is required with your registration. 5% Group discount is available - min 3 pax.

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