



Certificate in Big Data Testing

Vskills Certifications

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Skills for a secure future

Certificate in Big Data Testing

Big data describes huge volumes of data - both structured and unstructured which are to be analyzed for insights and decision making usually with Apache Hadoop framework. Big Data Testing refers to testing of big data applications for ensuring working of all the functionalities of a big data application as expected. Big data testing assures smooth and error-free operation of the big data system while maintaining the performance and security.

Big Data Testing requires knowledge of Hive and Pig scripting to develop scripts for extraction and processing of the data for testing.

Why should one take Certificate in Big Data Testing?

Big Data Testing is the most in demand testing skill as it has gained widespread usage due to extensive usage of cloud computing, social media and big data technologies.

Vskills Certificate in Big Data Testing provides a hands-on approach to understand the nuances of big data application, Apache Hadoop, Pig scripting and essential of testing the big data application.

The certification attests to your understanding of big data and applying testing skills to stand out amongst your peers and gain better career prospects.

The certification covers

- Apache Hadoop Basics
- HDFS, Pig and Hive
- Big Data Testing Design
- Big Data Test Execution
- Performance and Failover Testing

Who will benefit from taking Certificate in Big Data Testing?

Software Testing Professionals, Engineers, Team Leads, Senior QA Engineers, managers will benefit immensely by opting for Vskills Certificate in Big Data Testing to gain an edge in Big Data Testing.

Students taking the certification also gain by showcasing their understanding of Big Data and are able to increase their job opportunities.

Test Details

- **Duration:** 60 minutes
- **No. of questions:** 50
- **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

*Fees may change without prior notice, please refer <http://www.vskills.in> for updated fees

Companies that hire Big Data Testing Professionals

Companies specializing in software testing or software development are constantly hiring skilled Big Data Testers. IT companies, MNCs hire Big Data Testing professionals for big data application testing related tasks. Companies employing Big Data Testing professionals include Google, TCS, Accenture, IBM, Tech Mahindra, GE, Amex, Deloitte, Wipro, TCS, etc.

Table of Contents

1. Introduction to Big Data Testing

- 1.1 Overview of Big Data
- 1.2 Importance of Testing in Big Data Projects
- 1.3 Challenges in Testing Big Data Applications

2. Big Data Technology Fundamentals

- 2.1 Hadoop Ecosystem
- 2.2 Apache Spark
- 2.3 NoSQL databases (e.g., MongoDB, Cassandra)
- 2.4 Apache Kafka

3. Big Data Testing Strategies

- 3.1 Testing approaches and methodologies
- 3.2 Test Planning for Big Data Projects
- 3.3 Data Validation and Integrity Testing
- 3.4 Performance Testing for Big Data Systems

4. Testing Tools for Big Data

- 4.1 Hadoop Testing Tools (e.g., HadoopUnit, MRUnit)
- 4.2 Spark Testing (e.g., SparkUnit, Spark-testing-base)
- 4.3 NoSQL Database Testing Tools
- 4.4 Data Ingestion Testing Tools

5. Data Quality and Data Governance in Big Data

- 5.1 Data Quality Assessment
- 5.2 Data Profiling and Cleansing
- 5.3 Metadata Management in Big Data

6. Security and Compliance Testing in Big Data

- 6.1 Security Testing in Big Data Environments
- 6.2 Compliance Testing and Regulatory Requirements

7. Performance and Scalability Testing

- 7.1 Load Testing
- 7.2 Stress Testing
- 7.3 Scalability Testing in Big Data Systems

8. Testing Data Processing Techniques

- 8.1 Batch Processing Testing
- 8.2 Real-time Data Processing Testing
- 8.3 ETL (Extract, Transform, Load) Testing

9. Fault Tolerance and Resilience Testing

- 9.1 Fault Injection Testing
- 9.2 Disaster Recovery Testing
- 9.3 High Availability Testing

10. Big Data Analytics and Visualization Testing

- 10.1 Testing Data Analytics Algorithms
- 10.2 Validation of Data Visualization Tools

11. Use of Automation in Big Data Testing

- 11.1 Test Automation Frameworks for Big Data
- 11.2 Scripting and Automated Testing Tools

Certifications

- ▶ **Accounting, Banking & Finance**
 - Certified GST Professional
 - Certified AML-KYC Compliance Officer
 - Certified Business Accountant
 - Certified BASEL III Professional
 - Certified GAAP Accounting Standards Professional
 - Certified Treasury Markets Professional
- ▶ **Big Data**
 - Certified Hadoop and Mapreduce Professional
- ▶ **Cloud Computing**
 - Certified Cloud Computing Professional
- ▶ **Design**
 - Certified Interior Designer
- ▶ **Digital Media**
 - Certified Social Media Marketing Professional
 - Certified Inbound Marketing Professional
 - Certified Digital Marketing Professional
- ▶ **Foreign Trade**
 - Certified Export Import (Foreign Trade) Professional
- ▶ **Health, Nutrition and Well Being**
 - Certified Fitness Instructor
- ▶ **Hospitality**
 - Certified Restaurant Team Member (Hospitality)
- ▶ **Human Resources**
 - Certified HR Compensation Manager
 - Certified HR Staffing Manager
 - Certified Human Resources Manager
 - Certified Performance Appraisal Manager
- ▶ **Office Skills**
 - Certified Data Entry Operator
 - Certified Office Administrator
- ▶ **Project Management**
 - Certified Master in Project Management
 - Certified Scrum Specialist
- ▶ **Real Estate**
 - Certified Real Estate Consultant
- ▶ **Marketing**
 - Certified Marketing Manager
- ▶ **Quality**
 - Certified Six Sigma Green Belt Professional
 - Certified Six Sigma Black Belt Professional
 - Certified TQM Professional
- ▶ **Logistics & Supply Chain Management**
 - Certified International Logistics Professional
 - Certified Logistics & SCM Professional
 - Certified Supply Chain Management Professional
- ▶ **Legal**
 - Certified IPR & Legal Manager
 - Certified Labour Law Analyst
 - Certified Business Law Analyst
 - Certified Corporate Law Analyst
- ▶ **Information Technology**
 - Certified Angular JS Professional
 - Certified Basic Network Support Professional
 - Certified Business Intelligence Professional
 - Certified Core Java Developer
 - Certified E-commerce Professional
 - Certified IT Support Professional
 - Certified PHP Professional
 - Certified Selenium Professional
- ▶ **Mobile Application Development**
 - Certified Android Apps Developer
 - Certified iPhone Apps Developer
- ▶ **Security**
 - Certified Ethical Hacking and Security Professional
 - Certified Network Security Professional
- ▶ **Management**
 - Certified Corporate Governance Professional
 - Certified Corporate Social Responsibility Professional
 - Certified Leadership Skills Professional
- ▶ **Life Skills**
 - Certified Business Communication Specialist
 - Certified Public Relations Officer
- ▶ **Media**
 - Certified Advertising Manager
 - Certified Advertising Sales Professional
- ▶ **Sales, BPO**
 - Certified Sales Manager
 - Certified Telesales Executive

& many more job related certifications

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