WCBDD Examination Curriculum

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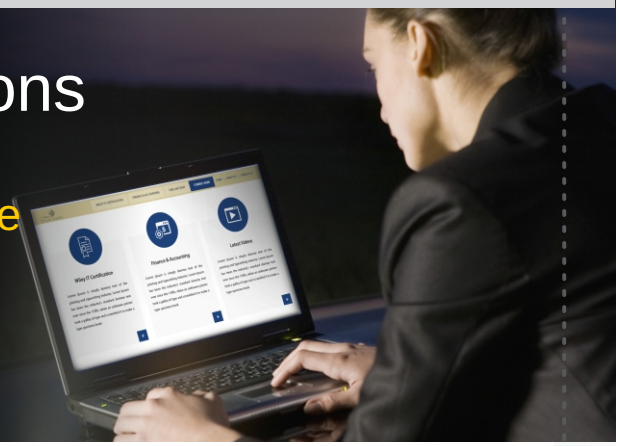

Complete training to certification solutions for career enhancement. Innovative scenario based learning with real life case studies, projects/labs.Unique certification evaluating industry relevant skills.

No	Module	Module Objectives
1.	Introduction to Big Data	• Understand the role and importance of Big Data • Discuss the use and applications of Big Data in various industries • Discuss the major technologies associated with Big Data • Explain the roles of the various components of Hadoop 2 ecosystem • Explain the fundamental concepts of MapReduce and YARN in the Hadoop 2 framework
2	Storing and Processing Data in Hadoop 2	• Analyze Hadoop's data storage model with HDFS and HBase • Develop basic MapReduce programs • Leverage MapReduce extensibility for customizing execution • Test and debug a MapReduce program in the design time • Develop YARN application, define role of YARN in Hadoop 2, and configure scheduling in YARN
3.	Hive and Pig	• Discuss the Hive data storage principle • Perform operations with data in Hive • Implement Advance Query features of Hive • Explain the File formats and Records formats supported by the Hive environment • Use Pig to automate the design and implementation of • MapReduce applications
4.	Spark and Scala	• Understand fundamentals of Spark Computing Ecosystem • Develop foundational programming skills in Scala • Perform programming in Spark • Use Spark SQL for in applications • Understand in-depth how Spark Streaming works

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5.	Additional Hadoop Tools: Oozie, ZooKeeper, Sqoop, Flume	• Analyze workflow design and management using Oozie • Design and implement an Oozie Workflow • Design and implement an Oozie Workflow • Implement the use of Apache Zookeeper for distributed coordination service • Load data into Hive and HBase from non-Hadoop storage systems using Sqoop • Describe the role of Flume • Use Flume for data aggregation
6.	Storm and NoSQL	• Develop Storm applications • Interface and interact with NoSQL • Perform CRUD Operations and querying in various NoSQL Databases