

*Dear Student,*

*Based upon your enquiry we are pleased to send you the course curriculum for Hadoop Development and Admin*

## **Hadoop Development and Admin Course Content**

### **Big Data and Hadoop**

- Introduction of Big Data
- Example of Big Data
- Introduction of Hadoop
- Advantage and Disadvantage of Hadoop

### **Hadoop Component**

- Hadoop Architecture
- Hadoop 2.X Component
- HDFS
- MapReduce
- Concept of NameNode(Master Node), Data Node(Slave Node) and Secondary Node
- Single Node Cluster and Multi Node Cluster
- Concept of Task Tracker and Job Tracker
- Read and Write data on HDFS
- Hadoop Shell Commands

### **Installation of Hadoop and Cluster Configuration**

- Linux installation
- Linux Commands
- Hadoop Installation
- Hadoop Cluster Configuration File

### **Data Loading using Commands, SQOOP and Flume**

- Hadoop Commands to Load Data
- Installation of SQOOP
- Sqoop Architecture
- Data Loading in Hadoop using SQOOP
- Import and Export using SQOOP

- What is Flume
- Flume Installation
- Data Loading using Flume

### **MapReduce & Yarn**

- Introduction of MapReduce
- MapReduce Data types and their use
- MapReduce Program writing and execution using Java
- Mapper class, Reducer class and Driver code
- Input Format and Output format
- Distributed Cache in MapReduce
- Splits and blocks
- Combiner and Practitioner
- Counters
- Junit and MRUnit Testing Tools
- Yarn Component
- Yarn Architecture
- Why we use Yarn

### **Hive and HiveQL**

- Introduction of Hive and HiveQL
- Hive Architecture & Components
- Difference between Hive and RDBMS
- Hive Installation
- Commands creation and execution using HiveQL
- Joins
- Hive DDL, DML and SQL
- UDF and UDAF

### **Hbase and NoSQL**

- Hbase introduction and Architecture
- Hbase Installation
- Hbase DataModel and Master
- Introduction of NoSQL Database
- Difference between NoSQL and RDBMS
- Commands using NoSQL
- Key Values Concept in NoSQL

### **Pig & PigLatin**

- Introduction of Pig and PigLatin
- Pig Installaiton
- Pig Latin scripts writing and Execution
- Pig Latin Data Types
- UDF

### **Apache Spark**

- Introduction of Spark
- Spark component and Ecosystem
- Spark Context and RDD
- SparkSQL

### **Hadoop Admin Task**

- How to upgrade Hadoop
- Dfsadmin and Mradmin
- Block Scanner
- Back and Recovery of Name Node and Data Node
- Monitoring of Cluster

### **Zookeeper and Yarn**

- Introduction of Zookeeper
- Installation of Zookeeper
- Zookeeper use cases
- Hadoop 1.0 and Map Reduce Limitations
- Introduction of Yarn and its Architecture
- Difference between classic and yarn
- Capacity scheduler

### **Trainer Profile (Ratnesh Gupta)**

- MCA Qualified and 10+ Years' Experience as Oracle DBA and Developer and 3+ Years' Experience on Hadoop
- Expertise in Unix/Linux and Shell Scripting
- Working in MNC
- Expertise in Programming Language
- Involved in Corporate Training from last 6 Years.

Course Duration	40 Hours
Fees	Call 9015041412 to know

**Counselling**