Big Data Certification Training

HCIA-Big Data Training

Training Path

1	HCIA-Big Data Training	
	Lecture,Practice	5.0 days

Target Audience

Big data practitioners

Big data related industry practitioners

Prerequisites

- Have basic knowledge of Linux.
- With IT project experience.
- Have Hadoop basics.

Objectives

On completion of this program, the participants will be able to:

- Master the principles of big data components
- Master the usage of big data components

Training Contents

HCIA-Big Data Training

- Big Data Industry and Technological Trends
  - Big Data Era
  - Big Data Application Scope
  - Opportunities and Challenges in the Big Data Era
  - Huawei Big Data Solution
- HDFS - Hadoop Distributed File System
  - HDFS Overview and Application Scenarios
  - Position of HDFS in FusionInsight HD
  - HDFS System Architecture
  - Key Features
- MapReduce - Distributed Off-line Batch Processing and Yarn - Resource Negotiator
  - Introduction to MapReduce and YARN

- Functions and Architectures of MapReduce and YARN
- Resource Management and Task Scheduling of YARN
- Enhanced Features

- Spark2x - In-memory Distributed Computing Engine
  - Spark Overview
  - Spark Principles and Architecture
  - Spark Integration in FusionInsight HD
- HBase - Distributed NoSQL Database
  - Introduction to HBase
  - Functions and Architecture of HBase
  - Key Processes of HBase
  - Huawei Enhanced Features of HBase
- Hive - Distributed Data Warehouse
  - Introduction to Hive
  - Hive Functions and Architecture
  - Basic Hive Operations
- Streaming - Distributed Stream Computing Engine
  - Introduction to Streaming
  - System Architecture
  - Key Features
  - Introduction to StreamCQL
- Flink – Stream Processing and Batch Processing Platform
  - Flink Overview
  - Technical Principles and Architecture of Flink
  - Flink Integration in FusionInsight HD
- Loader - Data Transformation
  - Introduction to Loader
  - Loader Job Management
- Flume - Massive Logs Aggregation
  - Flume Overview and Architecture
  - Key Characteristics of Flume
  - Flume Applications
- Kafka - Distributed Message Subscription System
  - Introduction to Kafka
  - Architecture and Functions of Kafka
  - Key Processes of Kafka
- Zookeeper - Cluster Distributed Coordination Service

- Introduction to ZooKeeper
- Position of ZooKeeper in FusionInsight
- System Architecture
- Key Features
- Relationship with Other Components

- FusionInsight HD Solution Overview
  - FusionInsight Overview
  - FusionInsight Features
  - Success Cases of FusionInsight

Duration

5 working days

Class Size

Max 16