



# PhoenixTS

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## Cloudera Certified Specialist in Apache HBase (CCSHB) Certification Training

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## Course Overview

Our 4-day, instructor-led course is designed for both network developers and network administrators. It covers the following:

- Best practices for identifying & resolving performance bottlenecks
- How to deploy & manage Apache HBase
- How to use & manipulate HBase tables
- How to design the most optimal schemes for data storage & recovery
- When to use Hadoop, HBase & RDBMS

This course will prepare you for the CCSHB® Certification exam.

## Schedule

Currently, there are no public classes scheduled. Please contact a Phoenix TS Training Consultant to discuss hosting a private class at 301-258-8200.

## Course Outline

### Hadoop Overview

- Breakdown of Big Data
- Apache Hadoop

### Apache HBase Overview

- Details of Apache HBase
- HBase and RDBMS
- Using HBase

### Administration API - HBase

- The HBase Shell
- Constructing Tables



- Java API
- Administration Calls

## **Data Access through HBase API**

- API Usage
- Extracting Data - Shell, Java API, and Thrift API
- Data Adding and Updates through the Shell
- Driving Data from the Shell, Java API, and Thrift API
- Adding and Updating Data with the API
- Scan and Advanced API
- Using Eclipse

## **Architecture of HBase**

- Component Cluster
- HBase Scales
- Write and Read Paths
- Compactions and Splits

## **HBase Configuration and Installation**

- Installation Process
- HBase Hardware Considerations
- Configuration Process
- MapReduce and HBase Clusters
- Disaster Recovery and Replication

## **Design Types**

- RDBMS to HBase Schema
- Application-Centric
- Row Key

## **HBase Schema Design**

- Column Families
- Considerations for Schema Design

- Hotspotting

### HBase Ecosystem

- OpenTSDB
- Kiji
- HBase and Hive

## Exam Information

### CCSHB Certification Exam 400 Details:

- Number of Questions: 45
- Passing Score: 69%
- Test Duration: 90 minutes
- Test Delivery: Pearson VUE

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