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AWS

# Big Data on AWS Training

**Due to Covid-19 safety restrictions** PhoenixTS will temporarily be unable to provide food to our students who attend class at our Training Center; however, our Break Areas are **currently open** where students will find a constant supply of Coffee, Tea and Water. Students may bring their own lunch and snacks to eat in our breakrooms or at their seat in the classroom or eat out at one of the many nearby restaurants.

## Course Overview

In this 3-day AWS course, students will learn about Cloud based Big Data Solutions available on the AWS Big Data platform. Students will learn how to process data and use different tools to create Big Data environments. Students will also learn about how to implement security and cost effectiveness while using Big Data platforms. The course will teach students to:

## Objectives

This AWS Big Data Certification course teaches you how to:

- Fit AWS solutions inside of a big data ecosystem
- Leverage Apache Hadoop in the context of Amazon EMR
- Identify the components of an Amazon EMR cluster
- Launch and configure an Amazon EMR cluster
- Leverage common programming frameworks available for Amazon EMR including Hive, Pig, and Streaming
- Leverage Hue to improve the ease-of-use of Amazon EMR
- Use in-memory analytics with Spark on Amazon EMR
- Choose appropriate AWS data storage options
- Identify the benefits of using Amazon Kinesis for near real-time big data processing
- Leverage Amazon Redshift to efficiently store and analyze data
- Comprehend and manage costs and security for a big data solution
- Secure a Big Data solution
- Identify options for ingesting, transferring, and compressing data
- Leverage Amazon Athena for ad-hoc query analytics
- Leverage AWS Glue to automate ETL workloads



- Use visualization software to depict data and queries using Amazon QuickSight
- Orchestrate big data workflows using AWS Data Pipeline

## Schedule

Currently, there are no public classes scheduled. Please contact a Phoenix TS Training Consultant to discuss hosting a private class at 240-667-7757.

## Who Should Attend

This AWS Big Data Certification course is intended for:

- Individuals responsible for designing and implementing big data solutions, namely Solutions Architects
- Data Scientists and Data Analysts interested in learning about the services and architecture patterns behind big data solutions on AWS

## Prerequisites

We recommend that attendees of this Big Data Certification course have the following prerequisites:

- Basic familiarity with big data technologies, including Apache Hadoop, MapReduce, HDFS, and SQL/NoSQL querying
- Students should complete the free Big Data Technology Fundamentals web-based training or have equivalent experience
- Working knowledge of core AWS services and public cloud implementation
- Students should complete the AWS Technical Essentials course or have equivalent experience
- Basic understanding of data warehousing, relational database systems, and database design

## Duration

**3 Days**

## Price

**\$2,175**

## Course Outline



## Day 1

- Overview of Big Data
- Big Data Ingestion and Transfer
- Big Data Streaming and Amazon Kinesis
- Lab 1: Using Amazon Kinesis to Stream and Analyze Apache Server Log Data
- Big Data Storage Solutions
- Big Data Processing and Analytics
- Lab 2: Using Amazon Athena to Query Log Data From Amazon S3

## Day 2

- Apache Hadoop and Amazon EMR
- Lab 3: Storing and Querying Data on Amazon DynamoDB
- Using Amazon EMR
- Hadoop Programming Frameworks
- Lab 4: Processing Server Logs With Hive on Amazon EMR
- Web Interfaces on Amazon EMR
- Lab 5: Running Pig Scripts in Hue on Amazon EMR
- Apache Spark on Amazon EMR
- Lab 6: Processing NY Taxi data using Spark on Amazon EMR

## Day 3

- Using AWS Glue to automate ETL workloads
- Amazon Redshift and Big Data
- Visualizing and Orchestrating Big Data
- Lab 7: Using TIBCO Spotfire to Visualize Data
- Managing Big Data Costs
- Securing Your Amazon Deployments
- Big Data Design Patterns

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Starting at **\$2,175**

**ATTENTION**

For GSA pricing or Contractor quotes call  
[240.667.7757](tel:240.667.7757)

**GSA**



**Price Match Guarantee**

We'll match any competitor's price quote. Call us at 240-667-7757.