Pro bono Training Titles for Education Institutes for 2021

Sl. No.	Event Title	Duration in Hrs	Level
1	AWS Technical Essentials	5 Hrs	Fundamental
2	AWS Cloud Practitioner Essentials	5 Hrs	Fundamental
3	Machine Learning Basics	1.5 Hrs	Fundamental
4	Big data fundamentals	1.5Hrs	Foundational
5	IoT Foundation: Telemetry	2.5Hrs	Intermediate
6	Data Analytics Fundamentals	3.5 Hrs	Fundamental

1. AWS Technical Essentials (5 hours):
In this introductory course, you will learn about AWS products, services, and common solutions. You will learn the fundamentals of identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements.

2. AWS Cloud Practitioner Essentials (5 hours):
The fundamental-level course is intended for individuals who seek an overall understanding of the AWS Cloud, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS services, security, architecture, pricing, and support. This course also helps you prepare for the AWS Certified Cloud Practitioner exam.

3. Machine Learning Basics (1.5 hours):
What is Machine Learning? How can Machine Learning solve business problems? When is it appropriate to use an ML model? What are the phases of a ML pipeline? Join us for an overview of the concepts, terminology and processes of the exciting field of machine learning!

4. Big Data Fundamentals (1.5 hours)

In this course, you will learn about Big Data and basic architecture, value, and potential use cases. The course introduces you to specifics of some key technologies, including Apache Hadoop, Amazon EMR, Apache Hive, and Apache Pig. Although the course focuses on industry-standard Big Data solutions, you will learn about the AWS Big Data ecosystem, a set of services and solutions provided by AWS to build and enhance Big Data solutions. This course is a prerequisite to the classroom training, Big Data on AWS.

5. IoT Foundation: Telemetry (2.5 hours)

Billions of small, physical devices, such as sensors and actuators, are currently deployed in homes, factories, hospitals, and in other business use cases. This proliferation of devices requires solutions to connect, collect, store, and analyze the data these devices generate. By using AWS IoT, you can build IoT solutions for most use cases across a wide range of devices. Being able to build and administer an IoT infrastructure is quickly becoming the skill set of the future.

In IoT Foundation: Telemetry, the first course in the AWS IoT Foundation series, you learn the basic building blocks of an AWS IoT infrastructure. Through the use of a real-world scenario, you create an IoT device, set up communications, transform the data from your device, and create rules to process and move the device data into other AWS services. You then use analytics to visualize and present your results.

You learn IoT terminology, concepts, and AWS IoT Core services through interactive exercises and demonstrations while you build a foundational knowledge of IoT topics and protocols. Through this course, you build your skills to successfully engage with IoT as a solution and progress to the more advanced IoT Foundation courses.

6. Data Analytics Fundamentals (3.5 hours)

In this course, you learn about the process for planning data analysis solutions and the various data analytic processes that are involved. This course takes you through five key factors that indicate the need for specific AWS services in collecting, processing, analyzing, and presenting your data. This includes learning basic architectures, value propositions, and potential use cases. The course introduces you to the AWS services and solutions to help you build and enhance data analysis solutions.