**Lesson descriptions**

Lesson 1: Cloud Practitioner Certification. In this lesson, the requirements will be reviewed, along with the exam itself, the experience of taking the exam, and some resources for further study and preparation.

Lesson 2: Fundamental Concepts. In Lesson 2, an introduction to cloud computing will be provided, along with a review of business needs, and a discussion of how Amazon Web Services helps address those needs.

Lesson 3: Fundamentals. In this lesson, the fundamentals of the AWS global infrastructure will be covered, and guidelines that help teams make good architectural decisions are reviewed.

Lesson 4: Basic Core Services. Any exam will require knowledge of the core AWS services. For the certified cloud practitioner exam, the basics of the core services will be covered, without getting too deep into technical details. Networking with Amazon Virtual Private Cloud (VPC), Amazon EC2, block storage with Amazon EBS, and object storage with Amazon S3 will be reviewed.

Lesson 5: Advanced Core Services. In this lesson, building on the basic services, we advance into things like instrumentation, scalability, content delivery, and serverless computing. Various database technologies, and more use cases will also be discussed.

Lesson 6: Other Services. Amazon Web Services is a very extensive collection of features and services for any use case you can imagine. In this lesson, a few more key services regarding automation and security will be discussed.

Lesson 7: Security in AWS. In this lesson, the shared responsibility model, identity and access management, and key services and concepts in managing your AWS accounts and credentials will be reviewed. Assurance programs like PCI and HIPAA, and a use case to help clarify which services solve which aspects of security, are provided.

Lesson 8: Service Pricing. When planning an application in the cloud, it’s more important to be aware of the details in how your choices will affect your bill. In this lesson, the pricing structures of various services for computing, databases, and storage will be explained.

Lesson 9: Cost Management. In this lesson, ways to predict costs for future applications, and review the costs of existing applications will be reviewed. The AWS calculators, tools for analyzing our monthly bill, and review AWS support plans are covered.