Course description
The Introduction to the AWS Cloud for K-12 Educators digital training course introduces educators to the Amazon Web Services (AWS) Cloud and the AWS Spark program. This foundational training explores cloud computing basics, AWS services, and how the AWS Cloud is applicable in a secondary school environment. Educators will learn what the cloud is and how to talk about the cloud to their students.
This training course includes video presentations, activities, and demonstrations of the AWS Cloud.

Intended audience
The Introduction to the AWS Cloud for K-12 Educators training course is for educators who:
- Teach STEM1, CTE2, and/or Physical Education classes to secondary school students
- Are interested in supplemental curricular content designed to highlight the ways in which cloud computing technology is used in the subjects they teach

Recommended delivery method
This is a digital training course for educators to learn online at their own pace.

Recommended experience and prerequisites
We recommend the following for educators:

<table>
<thead>
<tr>
<th>Experience</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>- No previous cloud computing experience or knowledge required</td>
<td>- Educator should be confident using computers, specifically navigating files and applications for themselves and students</td>
</tr>
<tr>
<td>- Some familiarity with Canvas learning management system (LMS) is preferred, but not required</td>
<td>- Able to work with an IT administrator at their organization to support facilitating future AWS Spark units</td>
</tr>
</tbody>
</table>

Note: Educators who have earned the AWS Certified Cloud Practitioner Certification may skip the Introduction to the AWS Cloud for K-12 Educators training course.

1 Science, Technology, Engineering, Mathematics (STEM)
2 Computer and Technology Education (CTE)
Technical requirements

Educators must have:

- Access to a laptop or desktop computer running Windows, Mac or Linux, or a Chromebook
- Access to an internet connection

Course objectives

In the Introduction to the AWS Cloud for K-12 Educators course, educators will:

- Articulate the ways in which the cloud is already being used in classrooms
- Explain the basic differences between the cloud and on-premise computing models
- Identify the benefits of cloud computing
- Understand how the teaching of cloud concepts and applications will foster student awareness of, and access to, scholarships and higher-paying technology jobs, as well as fostering a creative and innovative mindset about technology and its applications
- Recognize that there is a growing demand for those with cloud technology skills, and articulate your role in helping your student become cloud builders
- Identify the wide array of AWS services, and understand how AWS compares to industry competitors

Course outline

Lesson 1: Introduction
- Overview of learning about the AWS Cloud
- Overview of the importance of the cloud for you and your students

Lesson 2: For you
- AWS and teachers
- Overview of K-12 using the cloud

Lesson 3: For your students
- Future jobs in the cloud

Lesson 4: Course objectives

Lesson 5: Introduction to the AWS Cloud
- Overview of the cloud
- Activity: Vocabulary
- Future needs

Lesson 6: Benefits of the AWS Cloud
- Six benefits of cloud technology
- Activity: Vocabulary

Lesson 7: AWS Security and compliance
- Data security and compliance overview
- Activity: Vocabulary

Lesson 8: AWS service categories
- AWS service categories overview
• **Activity:** Vocabulary

**Lesson 9: Wrap-up**

• AWS K-12 STEM cloud initiatives