



# Program Introduction and Overview

**AWS Academy**

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AWS Education Programs - Technical Program Manager

# The skills gap and need for cloud expertise

66%

of IT decision makers reported a gap between their team's skill levels and the knowledge required to achieve organizational objectives.

Source: [2018 Global Knowledge IT Skills and Salary Report](#)

No.1

Cloud computing is the number one hard skill companies need most in 2019.

Source: [LinkedIn Data](#)

35%

of employers report feeling confident that new recruits [hires] are well prepared with hard technical skills and "soft skills" such as complex problem-solving and analytical reasoning.

"Business and academia are not collaborating as actively and effectively as they could be in preparing students for employment and reskilling individuals already in the workforce,"

Source: [Bloomberg](#)

2/10

AWS Certifications held two of the top 10 positions of top paying certifications globally for 2020.

Source: [2020 Global Knowledge Report](#)

# Employers value AWS Certification

## 15 Top Paying IT Certifications In 2018



**Louis Columbus** Contributor ⓘ

Mar 12, 2018, 10:44pm • 63,922 views • #InTheCloud

### Forbes

#### TWEET THIS

🐦 Certifications in virtualization and cloud computing pay an average salary of \$112,955 per year.

🐦 The five AWS certifications available pay an average salary of \$125,591.

### Top Paying Certifications:

1. [Certified in the Governance of Enterprise IT \(CGEIT\)](#) - **\$121,363**
2. [AWS Certified Solutions Architect – Associate](#) - **\$121,292**
3. [Project Management Professional \(PMP®\)](#) - **\$114,473**
4. [AWS Certified Developer – Associate](#) - **\$114,148**
5. [Certified Information Systems Security Professional \(CISSP\)](#) - **\$111,475**



**CLOUD COMPUTING**

By **David Linthicum**, InfoWorld | JUN 13, 2017

### InfoWorld

## 3 killer cloud skills that will get you hired today

Companies are paying mad money for these cloud skills



Global Knowledge.

# Employers value AWS Certification

## IT skills shortage leads to AWS certification demand

AWS certifications help engineers advance their careers and help businesses find qualified candidates. Learn why demand for certifications is on the rise and how to get and stay certified.



Alan R. Earls

AWS certifications remain a hot commodity in the tech industry -- and a moving target.

## A certificate in Amazon's AWS cloud technology can boost your salary by 26%

BUSINESS  
INSIDER

Becky Peterson Sep. 9, 2017, 9:30 AM

# Companies investing in the AWS Cloud

## Start-Up



## Enterprise



## Public Sector





# AWS Academy helps close the gap

AWS Academy provides higher education institutions with free, ready-to-teach cloud computing curriculum that prepares students to pursue industry-recognized certifications and careers in the cloud.



**Curriculum  
developed and  
maintained by AWS**



**Post-secondary  
program integration**



**Aligned to  
AWS Certification**



**Employment  
readiness**

# AWS Academy program benefits

- Access to a free, ready-to-deliver [AWS-developed curriculum \(currently in English\)](#)
- Regular [course updates](#) from AWS that reflect releases and best practices
- Complimentary [AWS professional learning](#) for educators and access to [AWS Academy Forums](#), online discussion groups with our global community
- [AWS Academy digital badges](#) for students who complete courses and educators who meet badging requirements
- Alignment with and preparation for industry-recognized AWS Certification to [showcase knowledge](#) for educators and students
- Complimentary practice exams and [50% discount on AWS Certification](#) for educators and students (USD 50 for Foundational exam, USD 75 for Associate-level exams)\*
- [Curriculum-courses and Lab Environments](#): Hands-on [practical experience](#) in the AWS Console, along with theoretical modules, knowledge checks and exercises

# Curriculum components



## Lecture modules

Technical concepts are presented to students in a live lecture and/or digital lectures



## Hands-on labs

Guided exercises in the AWS Console allow students to practice skills in a sandbox



## Knowledge checks

Multiple-choice quizzes for each module motivate students and assess comprehension



## Project exercises\*

Scenario-based projects require students to develop and implement an AWS solution



# AWS Academy courses and learning resources

## AWS Academy Cloud Foundations

- Provides an overview of the AWS Cloud
- Foundational level
- 20 hours of content

## AWS Academy ML Foundations

- Introduces students to concepts of AI and ML
- Foundational level
- 20 hours of content

## AWS Academy Engineering Operation Technician

- Teaches students to develop technical expertise in data center operations.
- Foundational level - 21 hours of content

## AWS Academy Introduction to Cloud (1)

- Provides an exploration of cloud computing
- Foundational level
- 60 hours of content

## AWS Academy Introduction to Cloud (2)

- Introduces cloud computing skills and accelerates students toward the next steps in their journey
- Foundational level
- 60 hours of content

## AWS Academy Data Center Technician

- Helps students develop technical expertise in engineering operations
- Foundational level - 36 hours of content

# AWS Academy courses and learning resources

## AWS Academy Cloud Developing

- Help students gain technical expertise in development using cloud technologies
- Intermediate level
- 40 hours of content

## AWS Academy Cloud Architecting

- Focus on optimizing use of the AWS Cloud
- Intermediate level - 40 hours of content

## AWS Academy ML for Natural Language

- Teaches students how to run the ML pipeline on AWS for an NLP-specific business problem and more
- Intermediate level
- 20 hours of content

## AWS Academy Cloud Operations

- Prepares students to understand AWS infrastructure
- Intermediate level
- 40 hours of content

## AWS Academy Data Analytics

- Teaches data analytics through hands-on labs
- Intermediate level
- 7.5 hours of content

# AWS Academy Cloud Foundations

Module	Delivery Time Estimate (minutes)
Course Introduction	35
Module 1: Cloud Concepts Overview	60
Module 2: Cloud Economics and Billing	100
Module 3: AWS Global Infrastructure Overview	70
Module 4: Cloud Security	115
Module 5: Networking and Content Delivery	130
Module 6: Compute	225
Module 7: Storage	130
Module 8: Databases	130
Module 9: Cloud Architecture	115
Module 10: Automatic Scaling and Monitoring	90
Total	1200

# AWS Academy Cloud Architecting

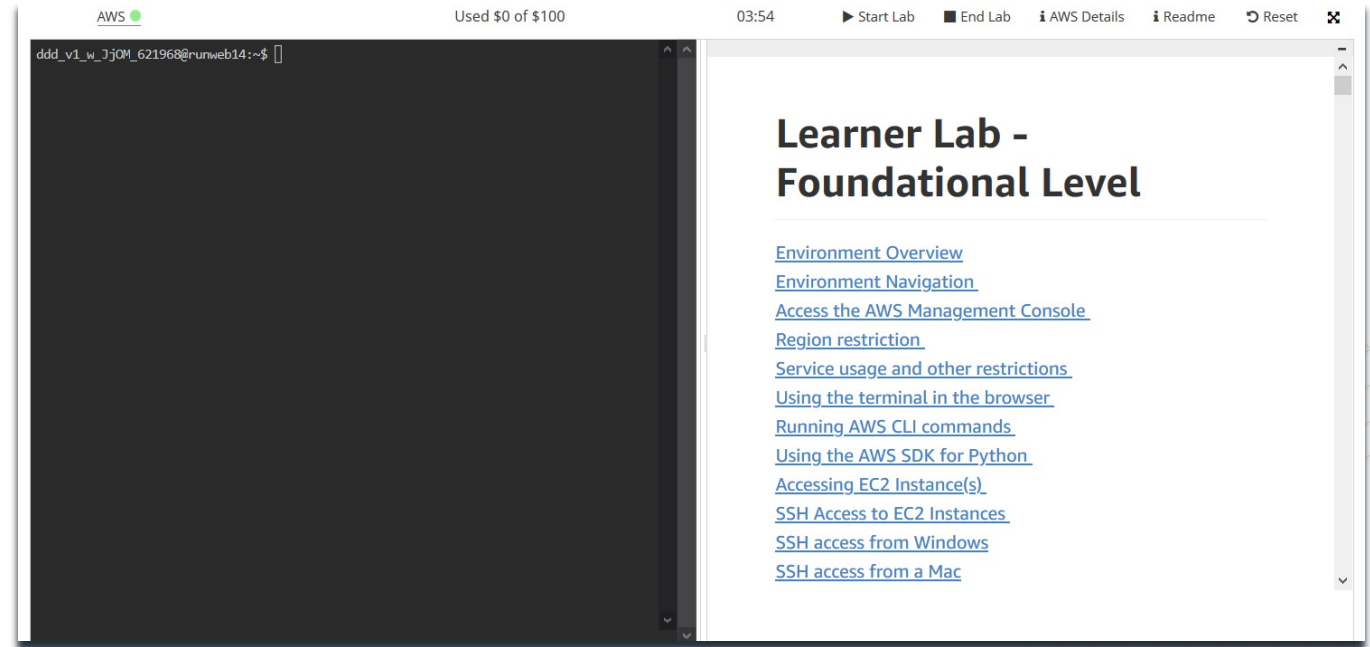
Module	Lecture	Digital Training	Exercise & Lab	Knowledge Check
Module 1: Welcome to Cloud Architecting	170 min.	25 min.		
Module 2: Designing Your Environment	230 min.	70 min.	20 min.	10 min.
Module 3: Designing for High Availability I	180 min.	55 min.	135 min.	10 min.
Module 4: Designing for High Availability II	185 min.	60 min.	50 min.	10 min.
Module 5: Automating Your Infrastructure	150 min.	55 min.		10 min.
Module 6: Decoupling Your Infrastructure	200 min.	65 min.		10 min.
Module 7: Designing Web-Scale Media	175 min.	55 min.	45 min.	10 min.
Project: Student Presentation			120 min.	
Module 8-13: Well-Architected Framework				
Module 14: Troubleshooting	85 min.	15 min.		10 min.
Module 15: Design Patterns and Sample Architecture	130 min.	40 min.		10 min.
Project: Lab			240 min.	

# AWS Academy Learner Labs

Long-running hands-on lab environments where educators can bring their own assignments and invite their students to get experience using select AWS services

What can you do with Learner Labs?

- Create a class for your students
- Invite your students
- Utilize your own projects
- View a student's workspace
- View student activity analytics





# How to join and get started with AWS Academy

Step 1	Step 2	Step 3	Step 4
<b>Institution completes the membership application</b>	<b>Institution nominates educator(s) and drafts delivery plan (online)</b>	<b>Educators complete the Educator Orientation course and self-paced version of courses</b>	<b>Educators deliver course content to students</b>

# Requirements for program participation

## Institutions

Nominate educator(s) for AWS Academy Foundation or Associate courses

Work with AWS Academy to identify a delivery plan

□ *Institute must be offering accredited degree, diploma, certificate or continuous education programs*

## Educators

- Complete AWS Academy Educator Orientation
- Achieve accreditation for Associate Level courses *\*no accreditation required for Foundation Level*
- Encourage students to get AWS Certified upon completion of the course
- *Educator must ideally be in-house faculty or can be contracted as adjunct/visiting faculty*

## Students

- Enrolled at an AWS Academy member institution or secondary school
- Enrolled in a class taught by an AWS Academy accredited educator

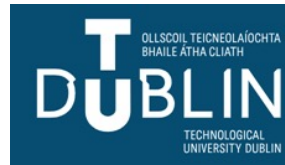
- Certification exams can also be taken from home via online proctoring
- Certificates valid for 3 years and program continuity/activity requirement

# Some AWS Academy members

## EMEA

## North/South America

## Asia Pacific





Learn more and get started:  
[www.awsacademy.com](https://www.awsacademy.com)

[fawadgul@amazon.co.uk](mailto:fawadgul@amazon.co.uk)

Thank you!