

# Cloud Computing

**Caltech**

**Center for Technology &  
Management Education**

## **Designing Infrastructure Solutions on Azure**

# Cloud Computing

**Caltech**

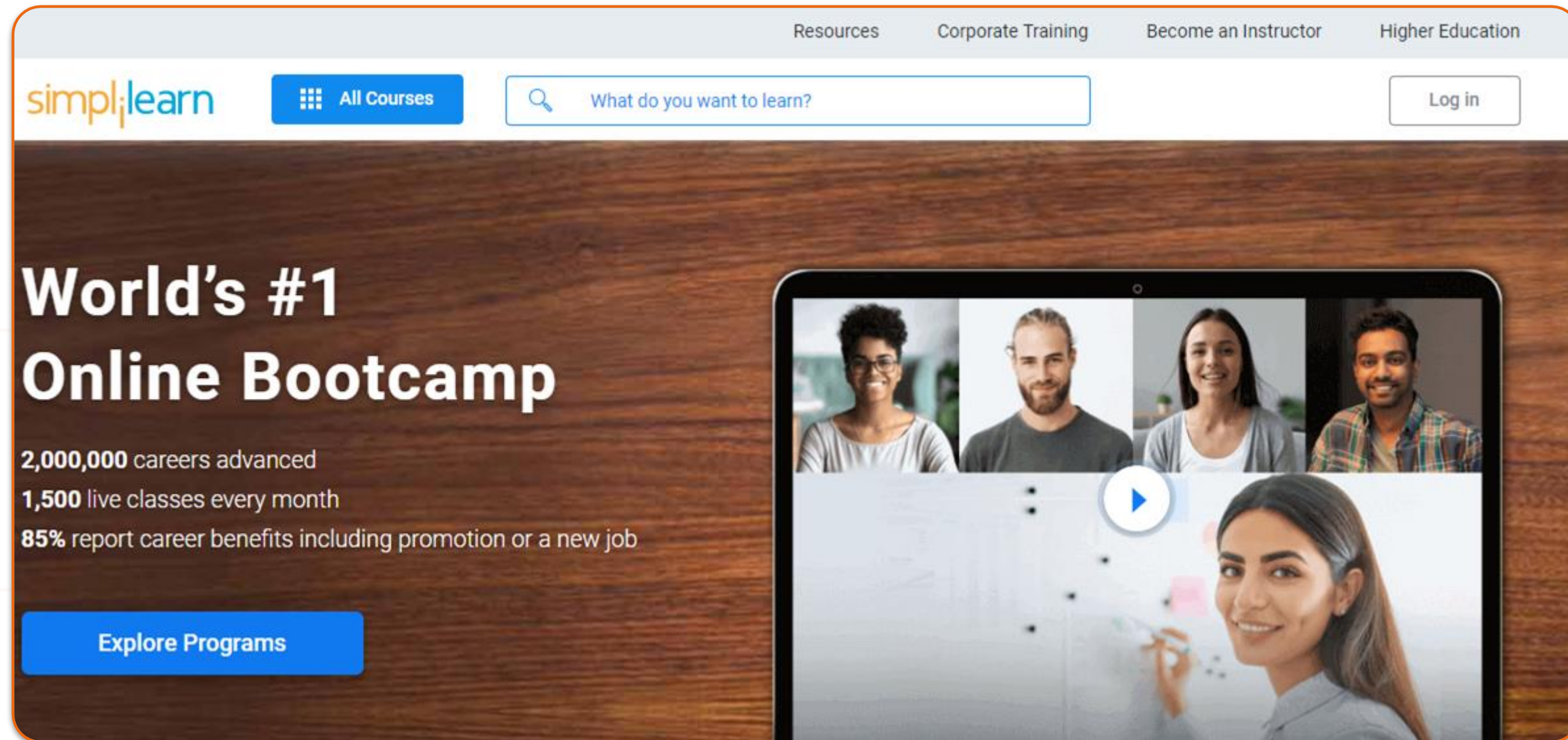
**Center for Technology &  
Management Education**

## Course Introduction

# About Simplilearn

# About Simplilearn

For over a decade now, Simplilearn is focused on digital economy skills.  
Now, Simplilearn has become **World's #1 Online Bootcamp**.



The image shows a mockup of the Simplilearn website homepage. At the top, there is a navigation bar with links for 'Resources', 'Corporate Training', 'Become an Instructor', and 'Higher Education'. Below this is the Simplilearn logo, a blue button labeled 'All Courses', a search bar with the placeholder text 'What do you want to learn?', and a 'Log in' button. The main content area features a large wooden-textured background. On the left, the text 'World's #1 Online Bootcamp' is prominently displayed in white. Below this, three statistics are listed: '2,000,000 careers advanced', '1,500 live classes every month', and '85% report career benefits including promotion or a new job'. A blue button labeled 'Explore Programs' is positioned below the statistics. On the right side of the main content area, there is a large image of a tablet displaying a video conference with four participants and a woman in the foreground pointing at a whiteboard.

# Simplilearn

At Simplilearn, we provide:

simplilearn

Live Virtual Classes



Self-Paced  
Learning Content



Interactive Labs



Real-Time  
Scenario-Based Projects

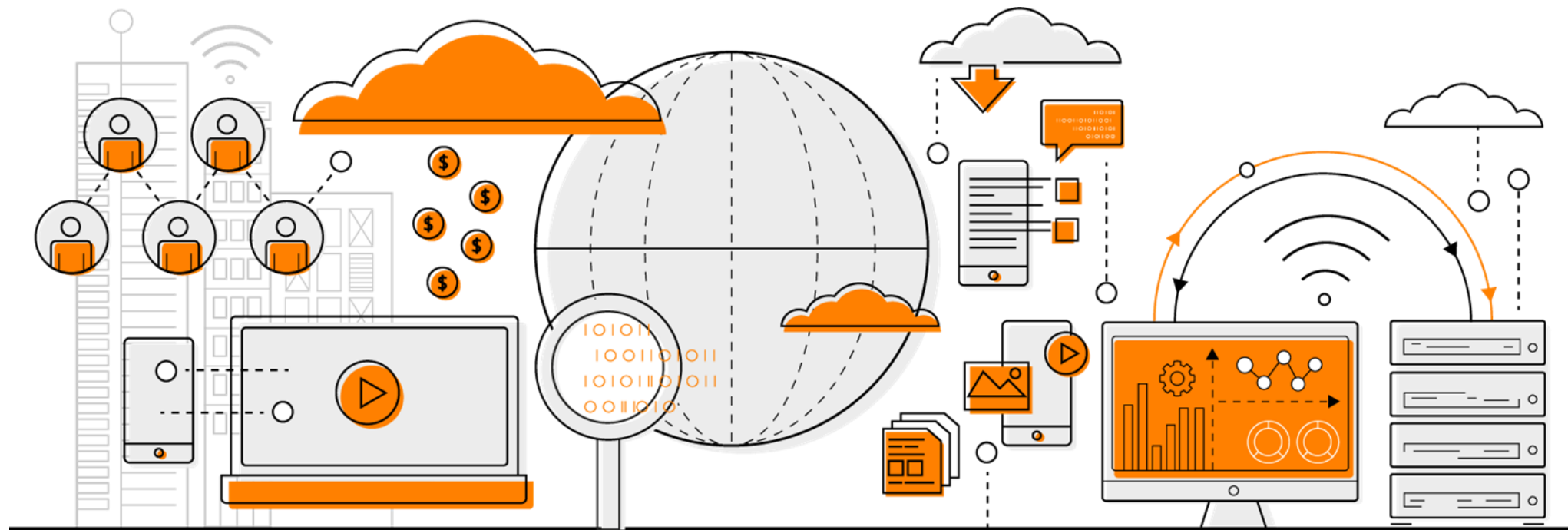




# Introduction to Cloud Computing

# What Is Cloud Computing?

Cloud computing refers to the delivery of services such as computation, storage, and networking through the internet.



It follows a pay-as-you-go approach where users only pay for the resources based on usage.

# Benefits of Cloud Computing



- Savings
- Efficiency
- Accessibility
- Reliability
- Flexibility
- Security

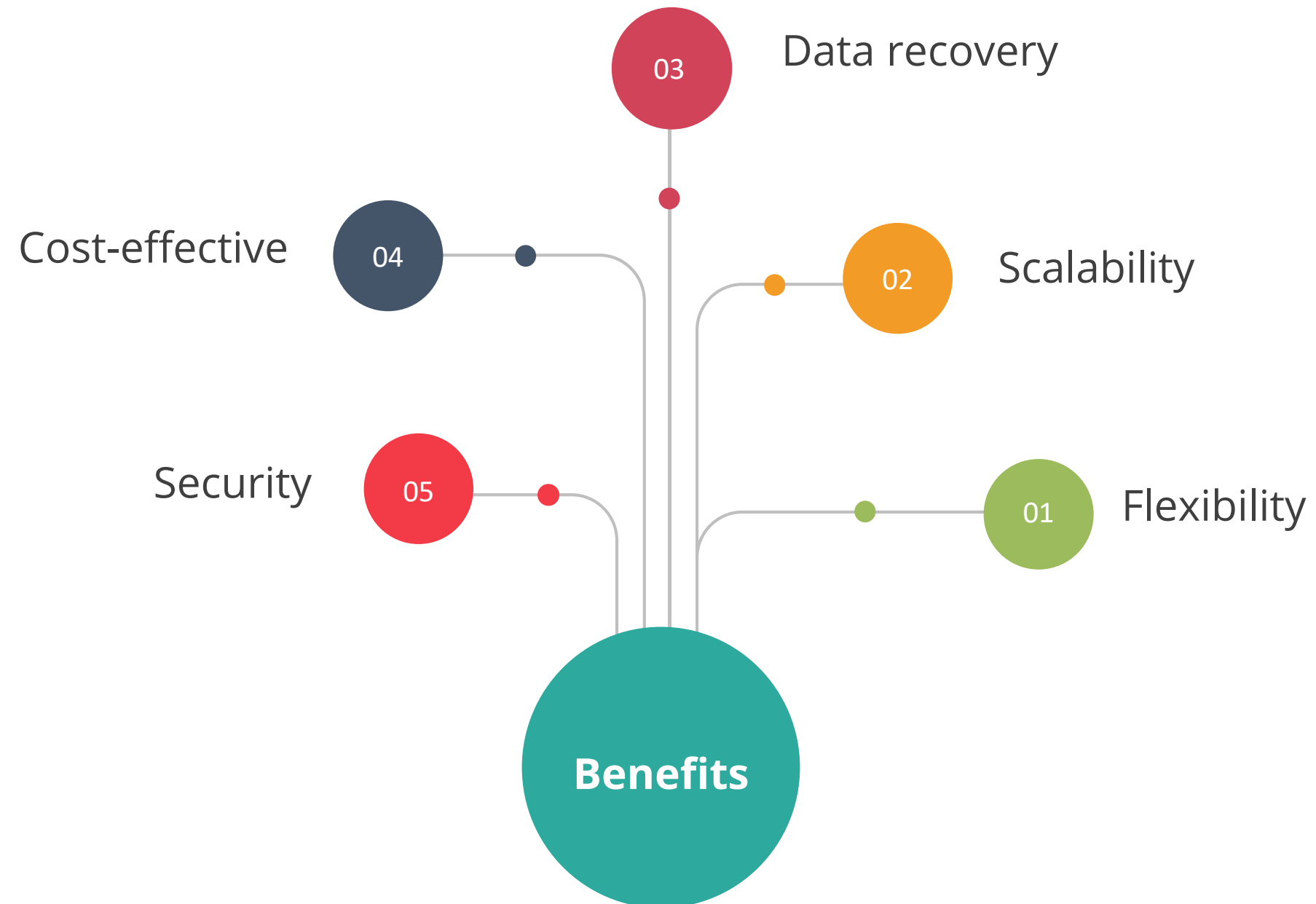


# What Is Microsoft Azure?

Microsoft Azure is one of the market's leading cloud providers, offering over 200 products and cloud services that help users bring creative ideas to life.



# Why Microsoft Azure?



# Skills Covered

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Role-Based Access Control

Azure Solutions

Azure Policy

Azure Migration

# Why This Course?



The Microsoft Azure Solutions Architect Expert AZ 305 course provides an opportunity to prove knowledge of IT operations, including:

- Networking
- Virtualization
- Identity
- Security
- Business continuity
- Disaster recovery
- Data platforms
- Governance

# Learning Path

# Course Outline

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- 01 Course Introduction
- 02 Design a Governance Solution
- 03 Design Authentication Solutions
- 04 Design Authorization
- 05 Design a Solution for Logging and Monitoring



# Course Outline

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- 06 Design for High Availability
- 07 Design a Solution for Backup and Recovery
- 08 Design a Solution for Non-Relational Data
- 09 Design a Solution for Relational Data
- 10 Design Data Integration

# Course Outline

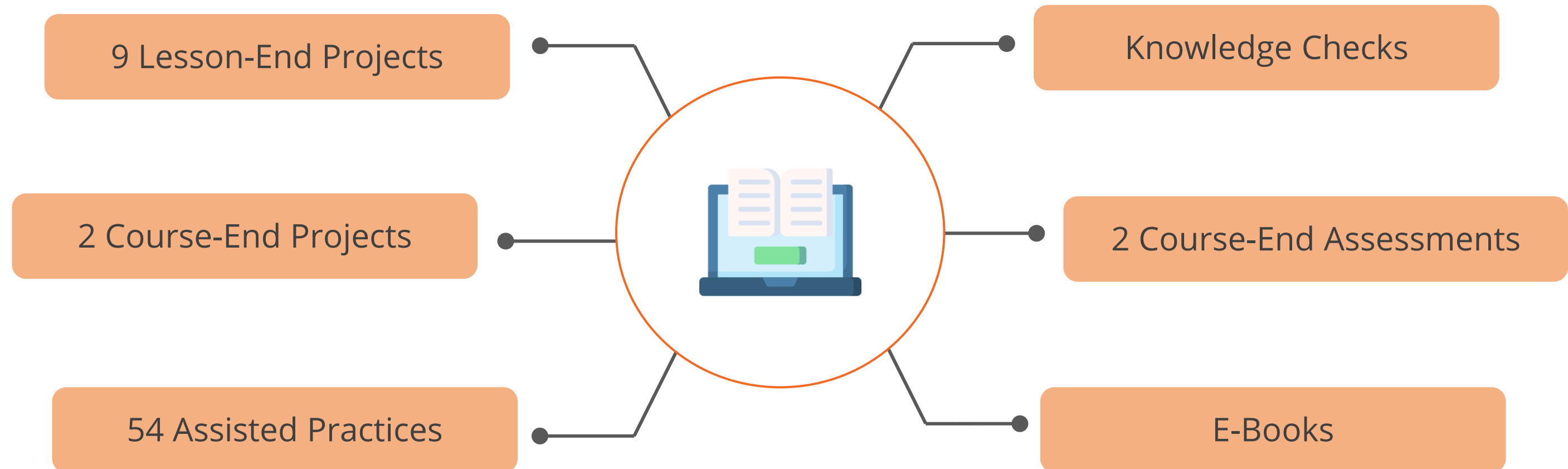
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- 11 Design a Compute Solution
- 12 Design an Application Architecture
- 13 Design a Network Solution
- 14 Design Migrations
- 15 Design for Cost Optimization

# Course Components

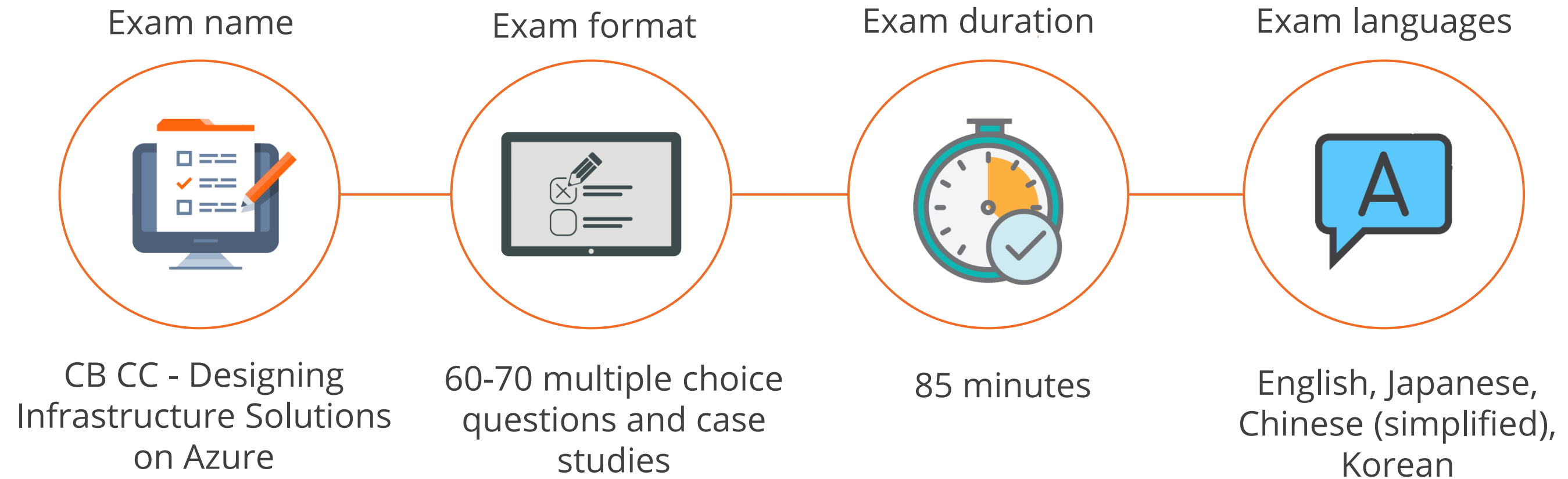
# Course Components

Simplilearn's comprehensive learning platform will provide you with an in-depth understanding of the key concepts with the help of the following course components:



# Exam Format

# Official Exam Information



The passing score for the certification is 700 out of 1000.





**Let's get started!**