

# ICT367 AWS Certified SysOps Administrator – Associate

**Level:** 3

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

## Synopsis:

ICT367 AWS Certified SysOps Administrator – Associate is designed to prepare students to pursue entry-level DevOps, support, and cloud operations roles. Emphasizing best practices in the AWS Cloud and recommended design patterns, this course will teach students how to solve problems and troubleshoot various scenarios. The course will show students how to create automatable and repeatable deployments of networks and systems on AWS and covers specific AWS features and tools related to configuration and deployment. With case studies and demonstrations, students will learn how some AWS customers design their infrastructures and implement various strategies and services. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities. This course will prepare students to take the AWS Certified SysOps Administrator – Associate level AWS Certification exam.

## Topics:

- Understanding Systems Operations on AWS
- Tooling and Automation
- Computing (Servers)
- Computing (Scaling and Name Resolution)
- Computing (Containers and Serverless)
- Computing (Database Services)
- Networking
- Storage and Archiving
- Monitoring
- Security
- Managing Resource Consumption
- Cloud Architecting

## Learning Outcome:

- Illustrate AWS infrastructure relates to system operations
- Indicate container services and AWS services available for serverless computing
- Analyze resource consumption in an AWS account by using tags, Amazon CloudWatch, and AWS Trusted Advisor
- Apply the AWS Command Line Interface (AWS CLI), and understand additional administration and development tools
- Create and configure automated and repeatable deployments with tools such as Amazon Machine Images (AMIs) and AWS CloudFormation
- Evaluate compute instances, configurations, and databases on AWS, as well as the health of infrastructure with services

## Assessment Strategies (Evening Class):

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Examinable Components	Online Exam	100
<b>Total</b>		<b>100</b>