



OLUMS

Intelligent Management
and Tracking Systems

How Shuttleworth Academy Implemented a South African Learnership LMS with OLUMS Powered by AWS

Shuttleworth Academy needed a Learning Management System (LMS) aligned to South African learnership delivery and assessment practice—not a generic international content platform. The required workflow had to connect classroom learning, group activities, workplace scenarios and formal assessment governance.

OLUMS implemented an AWS-hosted LMS and WIL solution for approximately 45 learners, with a traceable sequence from assessor review to moderator verification and final sign-off.

Challenge

- Generic LMS platforms did not reflect local learnership practice
- Fragmented classroom, group and workplace-scenario evidence
- No integrated assessor, moderator and final sign-off chain

Solution

- Purpose-built South African learnership LMS on AWS
- Classroom, breakaway-group and industry-scenario workflows
- Role-based assessment, moderation and final approval

Results

- Approximately 45 learners supported
- Three-stage assessment governance implemented
- LMS and WIL workflows integrated in one platform



The Customer

Shuttleworth Academy (Pty) Ltd is a South African private training provider accredited across Services SETA, BANKSETA, MICT SETA, Wholesale and Retail SETA, CPD and COMESA programmes.

OLUMS delivered the LMS implementation from approximately 1 July 2025 to confirmed completion on 30 June 2026. The completed cohort comprised approximately 45 learners.



About OLUMS

Online University Management Systems (OLUMS) is an education technology company specialising in digital platforms for higher education and skills development. Founded in 2019, OLUMS designs systems that support academic operations, industry engagement, and regulatory compliance.

As an AWS Partner, OLUMS builds and operates its platforms on Amazon Web Services to meet the scalability, security, and reliability requirements of public sector and higher education institutions.



The Challenge: A Learning Platform Built for Local Practice

Shuttleworth Academy required more than online content delivery.

Local Learnership Methodology

The platform had to support classroom learning, breakaway groups and realistic industry scenarios.

Assessment Governance

Evidence required separated assessor, moderator and final sign-off responsibilities.

Generic LMS Limitations

A standard content repository did not reflect the programme methodology, WIL integration or evidence chain.

The Solution: An LMS Configured Around Learnership Delivery

OLUMS implemented a purpose-built LMS and WIL workflow on AWS for approximately 45 learners.

Integrated Delivery

The platform supported:

- Classroom and breakaway-group learning
- Learner input on teaching topics
- Evidence from realistic industry scenarios
- Role-based assessor, moderator and final approval created a traceable completion record.

Results: Local Relevance and Traceable Assessment

Learner Reach

Approximately 45 learners were supported through the completed implementation.

Assessment Governance

Three control stages—assessor, moderator and final sign-off—were configured.

Integrated Delivery

LMS and WIL capabilities connected learning, group activity, industry evidence and programme administration.

An AWS-hosted platform linking learning content, evidence and assessment

The Shuttleworth implementation operated within OLUMS shared production AWS account 960023070339. Amazon EC2 application capacity behind an Application Load Balancer supported the PHP platform. Amazon RDS stored structured learner, programme and approval records, while Amazon S3 stored learning and assessment evidence.

Amazon VPC security controls separated workload tiers. AWS WAF protected the public application path, while AWS KMS, AWS CloudTrail, Amazon GuardDuty, Amazon Inspector and Amazon CloudWatch supported encryption, audit, security and operational monitoring. AWS CLI and CodeDeploy supported controlled releases.

Role-based application access separated learners, facilitators, assessors, moderators and final approvers.



Designed around the South African assessment chain

The workflow reflected the way learnership programmes operate in practice. Classroom and breakaway-group activity could be connected to evidence from realistic industry situations. Learners could also recommend or flag teaching topics requiring additional classroom attention.

Assessment evidence then followed an explicit three-stage governance chain: assessor review, moderator verification and final sign-off. This improved accountability and traceability without forcing the provider to adapt its methodology to a generic LMS structure.



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Learning Delivery Beyond a Generic Content Repository

The platform was designed around the programme rather than an imported LMS model. It combined classroom learning, group-based activity, learner feedback, real-life industry scenarios and WIL evidence in one structured environment.

This allowed Shuttleworth Academy to preserve its teaching and assessment methodology while gaining the access control, data management and scalability of an AWS-hosted platform. The implementation created a coherent record from learning activity through assessment and programme completion.

“Their ability to integrate LMS functionality with Work-Integrated Learning workflows has added measurable value to our internal training and programme delivery processes.”

Glenda Wendy Shuttleworth
Chief Executive Officer
Shuttleworth Academy (Pty)
Ltd

Assessment Integrity Through Role Separation

The assessor, moderator and final approval roles were configured as distinct stages. Future implementations will baseline completion and turnaround measures at project inception, validate each role during user acceptance testing and capture architecture and ACE evidence during mobilisation rather than reconstructing it after completion.