Training Course on E-Learning Platform Management and Scalability

Professional Development Training Course Outline

Category	Educational Leadership and Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In the digital transformation era, effective e-learning platform management is essential for ensuring scalability, performance optimization, and sustainable online education delivery. Training Course on E-Learning Platform Management and Scalability is designed to equip educational administrators, instructional designers, and platform managers with the core competencies to manage, enhance, and scale e-learning environments efficiently. With a focus on cloud integration, user analytics, LMS optimization, and adaptive learning systems, this course delivers strategic insights and hands-on skills to future-proof online learning ecosystems. Participants will gain proficiency in handling high user traffic, data security, platform interoperability, and learner engagement using trending technologies like AI integration, microlearning, and learning experience platforms (LXPs).

As virtual learning environments (VLEs) continue to evolve globally, institutions must adopt forward-thinking strategies that support growth and sustainability. This course explores scalable architectures, performance tuning, stakeholder collaboration, and seamless third-party integrations while ensuring compliance with international standards like SCORM and xAPI. Through real-world case studies, actionable frameworks, and platform simulations, learners will develop a robust understanding of managing LMS platforms, enabling inclusive, responsive, and growth-ready digital education infrastructures.

Programme Curriculum

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Course Objectives

1. Understand core principles of e-learning infrastructure scalability.
2. Evaluate cloud-based LMS platforms for optimization and performance.
3. Design adaptive learning paths using AI and learning analytics.
4. Implement strategies for platform uptime and load balancing.
5. Ensure data privacy compliance (GDPR, FERPA) in scalable systems.
6. Integrate third-party tools and interoperability frameworks.
7. Apply microlearning and mobile-first design best practices.
8. Utilize data-driven decision making for content delivery.
9. Build strategies for multilingual and global learner support.
10. Monitor and optimize user engagement metrics.
11. Design scalable assessment and feedback systems.
12. Analyze case studies of enterprise-level LMS deployments.
13. Develop a growth roadmap for platform sustainability.

Target Audiences

1. Educational Technology Directors
2. University/School Administrators
3. Instructional Designers
4. Corporate L&D Managers
5. LMS Platform Developers
6. E-learning Consultants
7. Digital Transformation Officers
8. Government Education Planners

Course Duration: 10 days

Course Modules

Module 1: Introduction to E-Learning Platform Ecosystems

- Understanding digital learning environments
- Key LMS features and functionalities
- Core components of scalable platforms
- Role of cloud infrastructure
- Trends shaping e-learning platforms
- **Case Study**: Coursera’s multi-region LMS expansion

Module 2: Infrastructure Planning and Cloud Scalability

- Cloud hosting options (AWS, Azure, Google Cloud)
- Serverless architectures for LMS
- Auto-scaling and redundancy models
- Cost-efficiency in cloud deployment
- Choosing the right hosting model
- **Case Study**: MoodleCloud implementation in Africa

Module 3: Performance Optimization for LMS

- Site speed and load testing tools
- Content delivery optimization (CDN)
- LMS caching strategies
- Load balancing techniques
- Real-time monitoring systems
- **Case Study**: Khan Academy's peak time optimization

Module 4: Adaptive Learning Systems and AI Integration

- AI-driven content personalization
- Recommender systems in LMS
- Learner data profiling
- Predictive analytics for engagement
- Chatbots and AI tutors
- **Case Study**: Duolingo’s AI integration journey

Module 5: Mobile-First Design and Microlearning

- Mobile UX/UI strategies
- Responsive course design
- Push notifications and offline access
- Short-form content planning
- Tracking microlearning efficacy
- **Case Study**: EdApp’s corporate learning success

Module 6: Interoperability and Integration Strategies

- LTI, SCORM, xAPI standards
- Integrating third-party plugins
- API management
- SSO and user provisioning
- CRM, HRM, ERP connectivity
- **Case Study**: Blackboard and Salesforce integration

Module 7: Security and Compliance in E-Learning

- User data encryption
- Secure authentication protocols
- Regulatory frameworks (FERPA, GDPR)
- Secure file and video storage
- Incident response planning
- **Case Study**: GDPR readiness at FutureLearn

Module 8: User Analytics and Learning Dashboards

- Key learner behavior metrics
- Dashboard customization tools

- Data visualization for instructors
- Early alert systems for drop-outs
- Reporting automation
- **Case Study**: Canvas LMS instructor dashboard

Module 9: Managing High-Traffic Environments

- Traffic spike prediction models
- CDN load distribution
- Session management
- LMS performance benchmarking
- Peak period planning
- **Case Study**: Udemy’s holiday traffic handling

Module 10: Assessment, Testing & Feedback Scalability

- Online proctoring tools
- Scalable testing frameworks
- Grading automation strategies
- Personalized feedback systems
- Interactive assessment design
- **Case Study**: ClassMarker scalability setup

Module 11: Internationalization and Localization

- Multilingual content setup
- Cultural adaptation strategies
- Global support workflows
- Localization plugins
- Compliance with international laws
- **Case Study**: Open edX localization project

Module 12: Instructor Training and Onboarding Systems

- Onboarding automation tools
- Training material repositories
- Support ticketing systems
- Instructor engagement strategies
- Creating self-service portals
- **Case Study**: Skillshare’s instructor onboarding

Module 13: Content Lifecycle Management

- Content curation and archival
- Version control in LMS
- Modular content frameworks
- Digital rights management (DRM)
- Review cycles and scheduling
- **Case Study**: LinkedIn Learning content pipeline

Module 14: Stakeholder Collaboration and Roles

- Defining user roles and permissions
- Collaboration tools for course design
- Agile methodologies in content rollout
- Feedback loops and iterations

- Communication protocols
- **Case Study**: Microsoft Teams in LMS management

Module 15: Future-Proofing and Platform Sustainability

- EdTech trend monitoring
- Continuous integration/updates
- Cost modeling and ROI planning
- Partnering with tech vendors
- Scaling for hybrid learning
- **Case Study**: Google Classroom's pandemic response

Training Methodology

- Interactive virtual training sessions
- Hands-on LMS configuration labs
- Real-world case study discussions
- Weekly expert-led webinars
- Peer-reviewed project submissions
- LMS simulation tools for practice

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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