



MICROSOFT TRAINING

Moodle Lms Development Course

Develop custom Moodle LMS solutions and extend functionalities. Master Moodle development for e-learning platforms.

DURATION

40 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The Microsoft Moodle LMS Development Course is an intermediate-level program meticulously designed for IT professionals and developers eager to master the art of customizing and extending the Moodle Learning Management System. This 40-hour intensive course delves deep into Moodle's robust architecture, empowering participants to build tailored e-learning solutions that meet specific organizational needs. You'll gain hands-on experience with Moodle's core APIs, database interactions, and plugin development framework, utilizing foundational web technologies such as PHP and MySQL.

Participants will learn to develop custom Moodle themes, create new activity modules, blocks, and reports, and integrate Moodle with external systems. By the end of this course, you will possess the practical skills to enhance Moodle's functionality, improve user experience, and ensure the scalability and security of your e-learning platforms. This certification not only validates your expertise in Moodle development but also positions you as a valuable asset in the rapidly expanding digital education sector, capable of transforming standard LMS installations into powerful, custom-fit educational environments.

Duration	40 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Moodle Architecture and Environment Setup

- Introduction to Moodle LMS and its ecosystem
- Understanding Moodle's core architecture and file structure
- Setting up a local Moodle development environment (LAMP/XAMPP)
- Moodle configuration files and database overview
- Navigating Moodle's administrative interface for developers
- Version control basics for Moodle projects

02 Module 2: Moodle Plugin Development Fundamentals

- Introduction to Moodle Plugin types (activities, blocks, reports, themes)
- Understanding Moodle's API and core functions
- Developing custom Moodle Blocks: structure, rendering, and settings
- Creating custom Moodle Reports: data querying and display
- Introduction to Moodle Forms API for user input
- Debugging Moodle code and best practices

03 Module 3: Customizing Moodle Themes and UI/UX

- Understanding Moodle's Theming engine and template system
- Creating custom Moodle themes from scratch
- Using Less/SCSS for Moodle theme styling
- Implementing responsive design principles in Moodle themes
- Customizing Moodle navigation and layout
- Accessibility considerations for Moodle UI development

04 Module 4: Advanced Moodle Activity and Module Development

- Deep dive into Moodle Activity modules: structure and lifecycle

- Developing a custom Moodle Activity module (e.g., custom quiz type, interactive content)
- Integrating Moodle's grading and logging APIs
- Working with Moodle's events and observers system
- Data storage and retrieval using Moodle's database API
- Security best practices for plugin development

05 Module 5: Moodle Integrations and Advanced Topics

- Integrating Moodle with external systems via Web Services (REST/SOAP)
- Developing custom authentication and enrolment plugins
- Performance optimization for Moodle instances
- Moodle Mobile app development overview and customization hooks
- Automating Moodle tasks with Cron jobs
- Preparing Moodle for production deployment and ongoing maintenance

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Moodle Solutions Architect**
- > **E-learning Platform Developer**
- > **Educational Technology Consultant**

FREQUENTLY ASKED QUESTIONS

Q: What specific types of Moodle plugins will I be able to develop after completing this course?

Upon successful completion, you will be proficient in developing a wide array of Moodle plugins, including custom blocks for displaying dynamic content, specialized reports for data analysis, and bespoke activity modules that introduce new interactive learning experiences. You'll also learn to create and customize themes to radically alter Moodle's visual presentation and user interface, and build local plugins for custom functionalities or integrations.

Q: What are the necessary technical prerequisites for enrolling in this Moodle LMS Development Course?

This intermediate-level course assumes a foundational understanding of web development technologies. Participants should have strong proficiency in PHP and MySQL, a solid grasp of HTML, CSS, and JavaScript, and familiarity with version control systems like Git. Basic experience with Moodle as a user or administrator is beneficial but not strictly required, as the course will cover Moodle's architecture from a developer's perspective.

Q: How does Moodle development skill set differentiate me in the e-learning industry, especially with the 'Microsoft' vendor association?

Mastering Moodle development, particularly with a Microsoft-vendor associated course, provides a distinct advantage by validating your expertise through a globally recognized tech leader. It demonstrates your capability to build robust, scalable, and secure e-learning solutions, often integrating Moodle with Microsoft technologies or cloud services (like Azure). This blend of Moodle specialization and Microsoft endorsement makes you highly marketable for roles requiring advanced customization and enterprise-level e-learning platform management within organizations that prioritize industry-standard certifications and robust development practices.

ABOUT COMPUTER PRIDE



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With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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READY TO ENROL?

Take the next step in your technology career.

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