



## Online Image Analysis Training Development in Support of SMCRA Applications

Office of Surface Mining Geospatial Conference 2008, Atlanta, GA

Michelle Mostowy, Instructor - Customer Education

Leica Geosystems Geospatial Imaging

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# Introduction

- **LGGI Current Training Program**
- **LGGI and OSM Coordinated Training Development**
- **Online Training Initiative**
- **Benefits of Online Training**
- **Conclusion**

# LGGI's Current Training Program

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# Leica's Customer Education

- **Leica Geosystems' GID training centers**

1. Atlanta, Georgia



2. Denver, Colorado

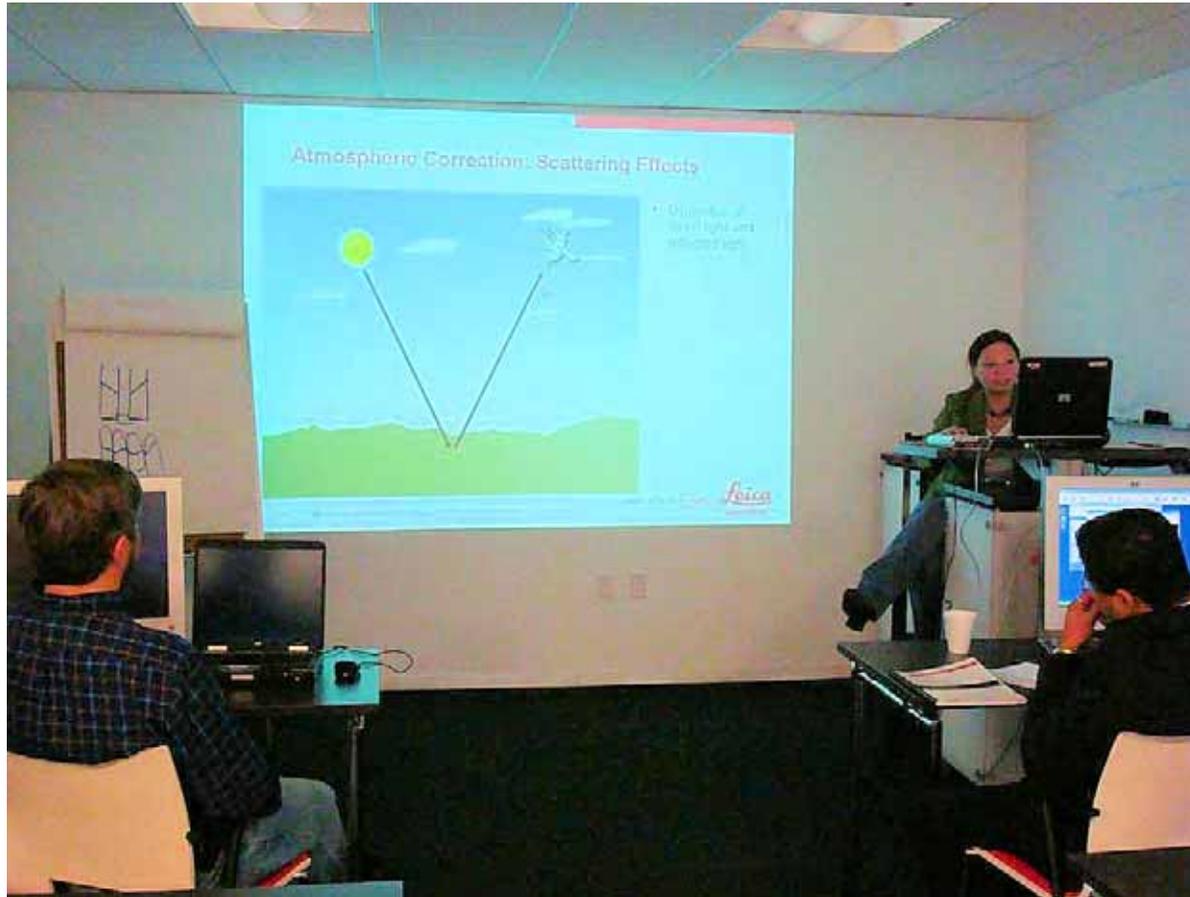


3. Washington, DC



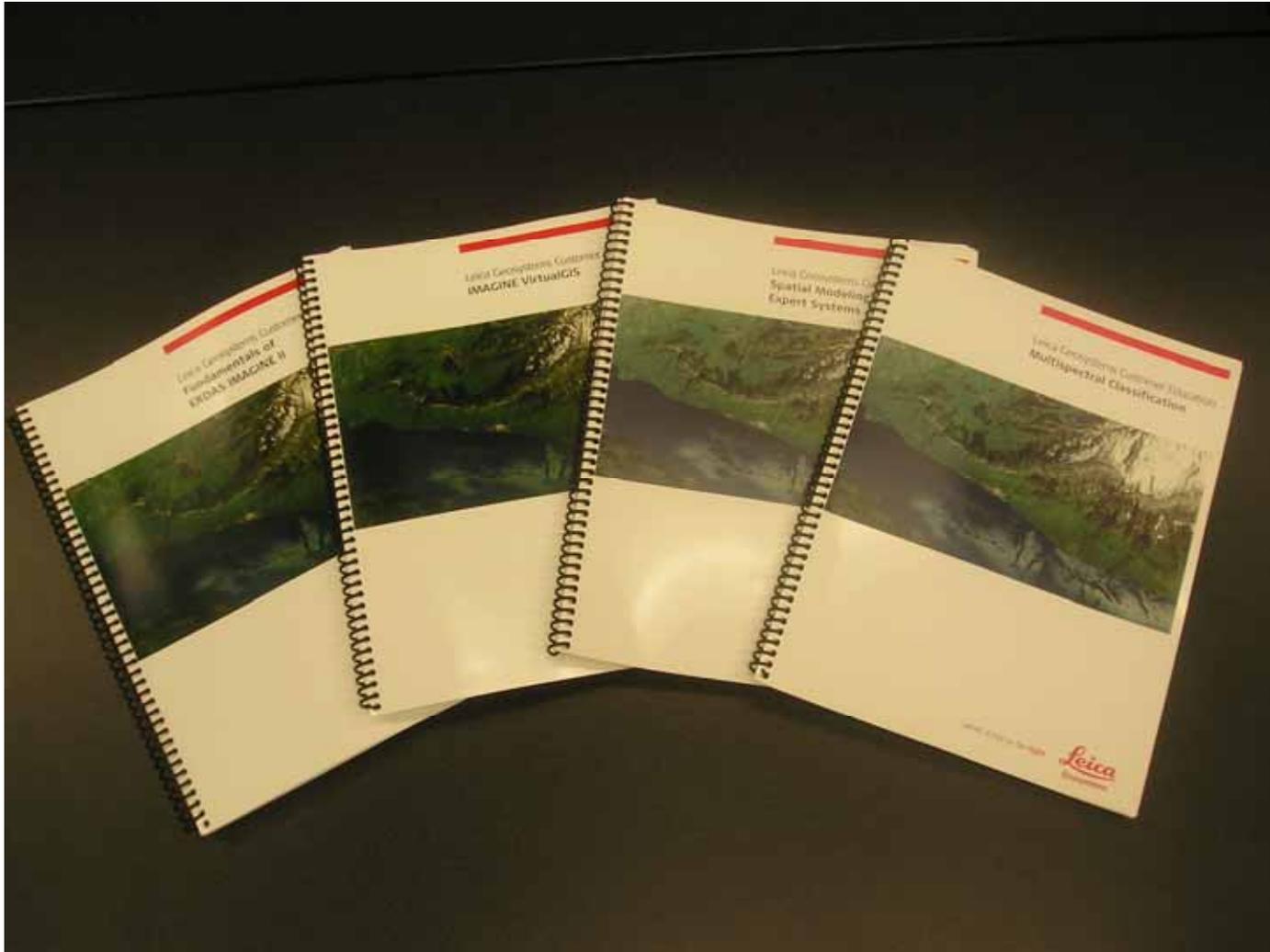
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# LGGI Instructor Led Courses



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# Instructor Led Courses



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# Instructor Led Courses

## BASIC

- Fundamentals of ERDAS IMAGINE® I
- Fundamentals of ERDAS IMAGINE® II
- Using Stereo Analyst
- IMAGINE for Defense Analysis
- Leica Virtual Explorer
- Introduction to ER Mapper Professional

## INTERMEDIATE

- Stereo Analyst® for ArcGIS
- Image Analysis™ for ArcGIS
- IMAGINE VirtualGIS®
- Oracle Spatial 10g: Fundamentals
- Introduction to Leica Photogrammetry Suite (LPS)
- Using Imagery to Update Your GIS
- Oracle and Leica ADE Fundamentals
- IWS

## ADVANCED

- ORIMA
  - Introduction to IMAGINE Developers Toolkit
  - Leica ADE Developer Training
  - HSI Exploitation and Analysis
  - Multispectral Classification
  - Spatial Modeling & Expert Systems
  - Oracle Spatial 10g: Advanced
  - Customized Training
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# LGGI's Online Course Development

- Leica Learn Center
- Online course registration
- Course access

The screenshot shows the Leica Learn Center website in a Microsoft Internet Explorer browser window. The page title is "Leica LearnCenter - Powered by Learn.com - Microsoft Internet Explorer". The address bar shows the URL: <http://training.lggi.com/learncenter.asp?licenseid=3-8058818F-CE77-4949-9CA2-C75C28EFD185&id=179409&page=14>. The page header includes the Leica Geosystems logo and the text "Leica Learn Center Gateway to online learning with Leica Geosystems - when it has to be right".

The navigation menu on the left includes the following items:

- Home
- Login
- Course Catalog
- Events
- Chat
- Instructor-Led Courses
- Need Assistance?
- FAQs
- Logout

The main content area is divided into two sections:

### Course Catalog

Courses For Sale

Course Name	Valid License
Coenna 101	<input type="checkbox"/>
Entas Introduction	<input type="checkbox"/>
Info_section_reproject	<input type="checkbox"/>
Imagine 101	<input type="checkbox"/>

### Class Catalog

Classes For Sale

Class Name	Valid License
Info_section_reproject	<input type="checkbox"/>

Free Class: [MFA Examples](#)

Search LearnCenter Pages:

Ignore Common Words (e.g. The, to, is)

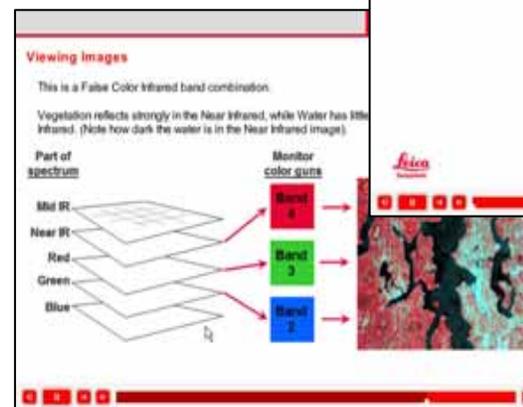
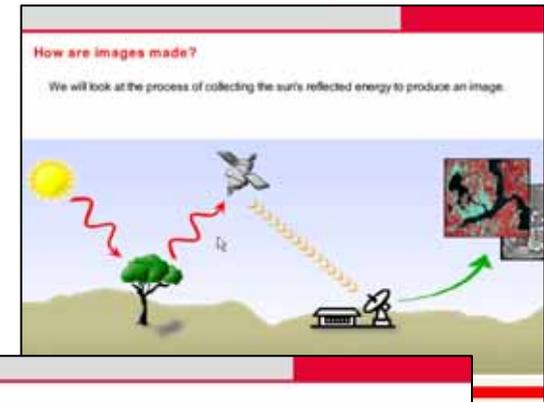
JUNE 2007

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# Current LGGI Online Course Development

- Image Analysis for ArcGIS
- Remote Sensing Theory Basics
- Map Composer Dynamic Templates
- Geospatial Light Table Tips and Tricks
- More to come!



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# LGGI and OSM Training Development

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# Instructor Led Course Development

- OSM trained in LGGI classrooms
- Course development based on LGGI's Image Analysis for ArcGIS
- Huge success – student attendance increasing!
- Increasing demand for remote sensing applications

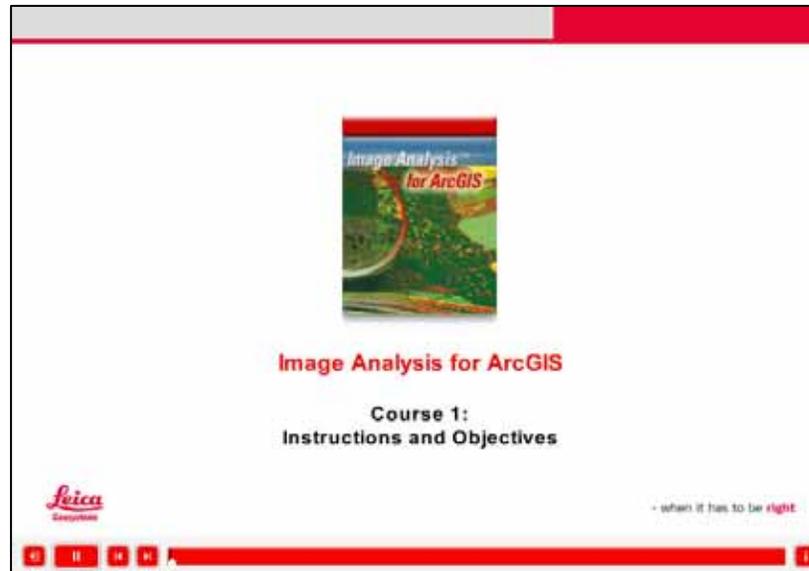


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# LGGI and OSM Online Course Development

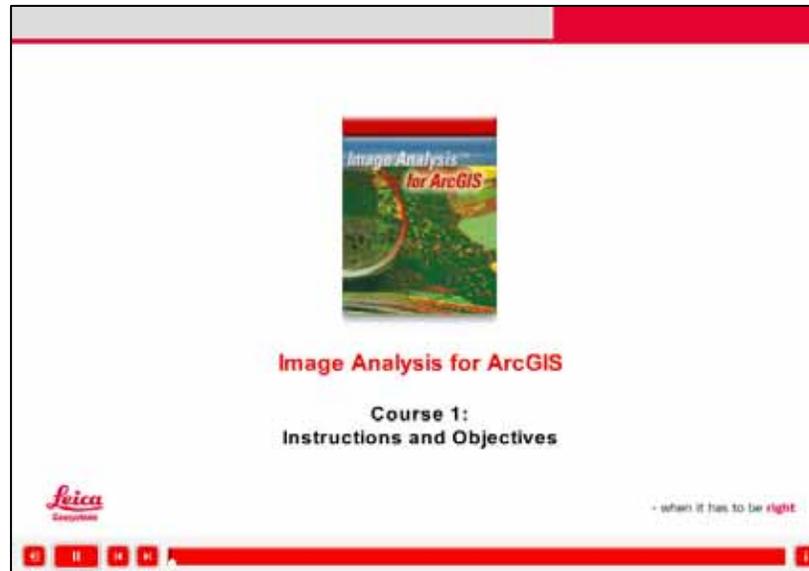
- Base OSM online training on current LGGI online courses
- Start with a focus on Image Analysis for ArcGIS



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# LGGI and OSM Online Course Development

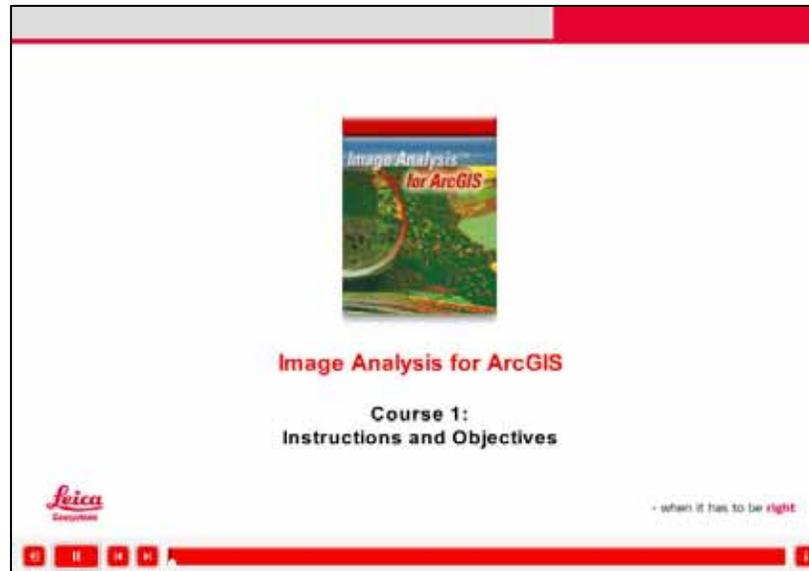
- Contain Remote Sensing Basics
- Move toward ERDAS IMAGINE courses



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# LGGI and OSM Online Course Development

- Develop blended course format – TIPS Instructor present during online class



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# Benefits of Online Training

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# Benefits to the Online Format

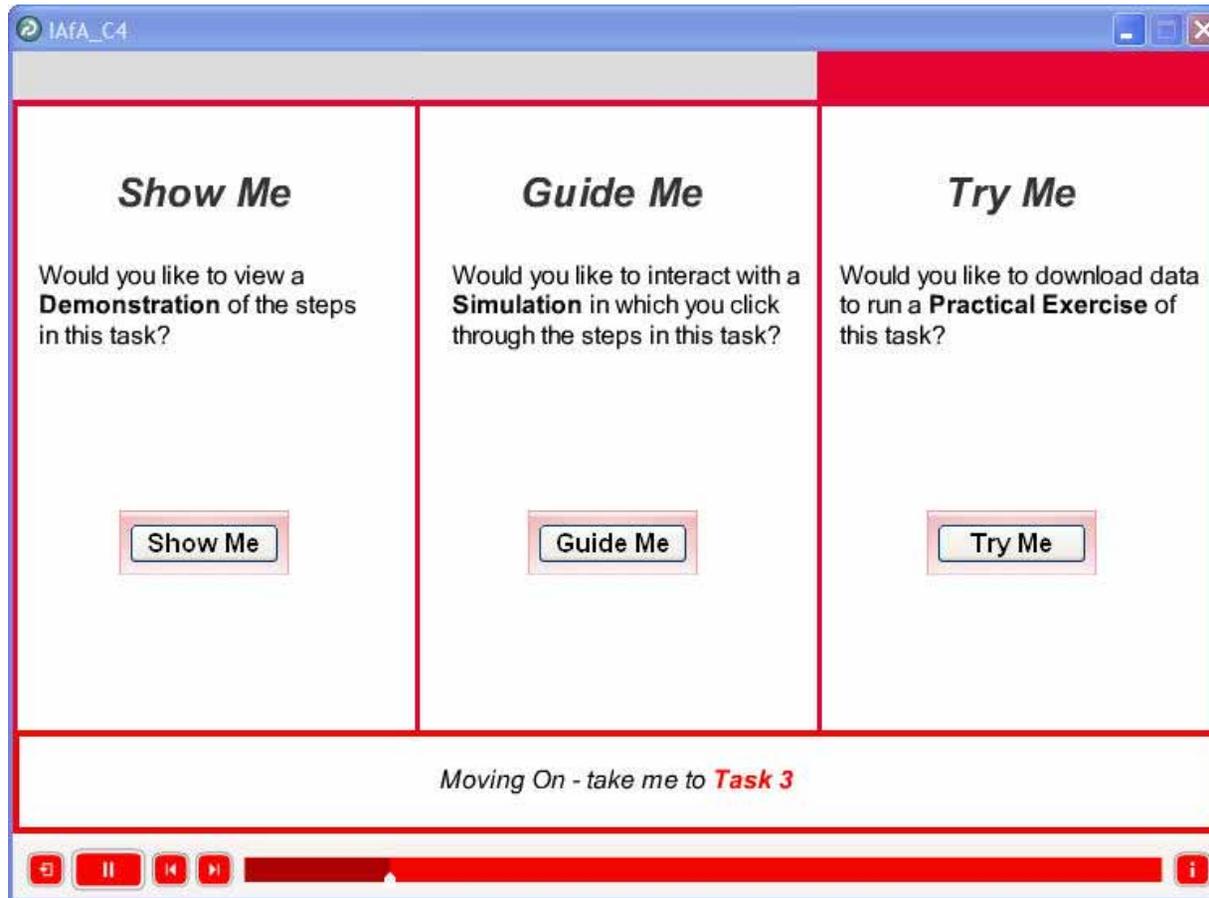
- **Modular courses – dramatically reduce time away from core job responsibilities**
- **At your location – eliminates travel cost**
- **Set your own learning pace**



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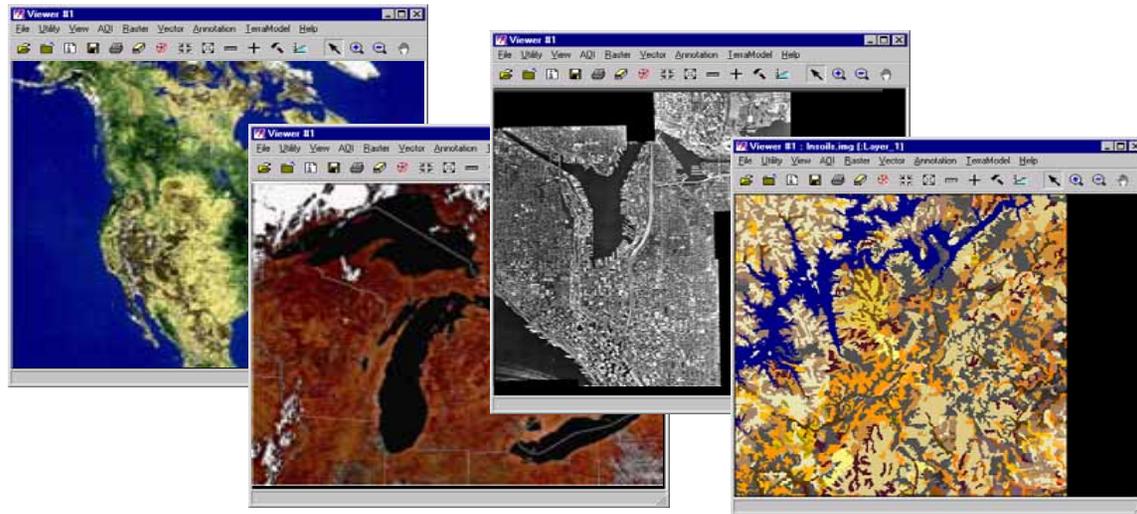
# Interactive Training Online



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# Real World Application

- Incorporate OSM State and Tribe datasets
- Develop SMCRA Relevant Case Studies or Real World Question to understand application of new skills
- Student feedback to use in continued course development



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# Learning Management System

- Access to courses
- Customizable
- Security enhanced
- Performance evaluation
- Reporting
- Certification



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# Discussion and Questions

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