



# Adobe Magento Commerce

## Magento 2 Development Essentials

**Course description:** Magento 2 Development Essentials is an 8-day instructor-led (in a class or virtual) course, where you will learn to perform simple Magento customizations using Magento techniques, dependency injection (DI), the layout system, action classes, installing/updating database schema, the web API, and more. This course aligns to preparation for the Magento 2 Certified Associate Developer exam.

**Duration:** 40 hours

**Magento Version:** 2.3.x

### Prerequisites:

- PHP, Composer, MySQL, OOP, GoF, GRASP
- At least 2 years' experience developing with PHP, MySQL, Apache/Nginx (Recommended)

**Target audience:** Developers and Magento Back End Developers

### Objectives

After completing this course, you will be able to:

- Gain familiarity with key Magento concepts
- Gain ability to understand Magento codebase
- Create new pages in Magento, and understand how existing pages work and can be customized
- Make simple UI modifications, design changes, customization of existing pages
- Learn and be able to apply Magento customization techniques
- Learn how to use Magento Web API
- Create/modify the database schema
- Customize the Admin UI
- Prepare for the Magento 2 Certified Associate Developer exam

### Course Materials

- Unit 1 Student Guide
- Units 2 & 3 Student Guide
- Units 4, 5 & 6 Student Guide
- Exercises and Virtual Machine

### TOPICS

- Basics of Magento Architecture & Customization Techniques
  - Accessing the Environment
    - › Module-Based Architecture, Directory Structure, Config XML and Variables Scope, DI, Event Observer, CLI
- Request Flow Procedures
  - › Magento modes, Frontend Controller, URL Rewrites
- Customizing Magento UI
  - › Themes, customizing blocks and templates, block types, layout XML
- Working with the Database
  - › Models, Resource Models, Collections
  - › Load and Save an Entity from a Database
  - › Sort, Filters, Specify Selected Values for Collections and Repositories
  - › Install/Upgrade Scripts
  - › DDL Slass in Setup Scripts
- Developing with Adminhtml
  - › Admin Router Controller, Cache, Config XML, Scopes, ACL
  - › Set Up a Menu Item
  - › Permissions, Extensions, Installation and Configuration
- Customizing Magento Business Logic
  - › Product Types and Behavior in Shopping Cart
  - › Category Properties and Relations
  - › Shipment Functionality
  - › My Account Section
  - › Customer Attributes and Address

### Start Learning Today

Global (except EMEA): 877-722-7088 (phone) • 801-406-4566 (fax) • adls@adobe.com  
 EMEA: phone +44 (0)1784 476556, ext 256 • fax +44 (0) 1784 476501 • adlsemea@adobe.com  
[learning.adobe.com](https://learning.adobe.com)

38049680: Bank of Funds