*Introduction*

***This guide provides information about the Adobe Certified Expert - Adobe Commerce Developer exam.***

*Magento Certification Name Changes*

***Magento certification credentials were integrated into the Adobe Credentialing ecosystem. As a result the framework and names of Magento credential names have been changed to align with Adobe's credentialing framework and naming conventions. For more details, please visit***[***here***](https://spark.adobe.com/page/MRusIqkhBMG0d/)***.***

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[](https://spark.adobe.com/page/ZCSxCHupv9Ywq/images/d35b51b8-ad60-4461-8506-0047e4b475cd.png?asset_id=73e42aaa-3c72-4d6f-af5b-05b3dc39d046&img_etag=a8d7c4d408b01751fcfd44b5dd39979c&size=1024)

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*Exam Guide Sections:*

* ***Intended audience***
* ***Exam information***
* ***Minimum candidate experience***
* ***Exam objectives and scope***
* ***Online sample test***
* ***Preparing for the exam***

*Intended Audience*

* *Developers*
* *Lead Developers*
* *Backend Developer*
* *Full Stack Developer*
* *Solution Architects*
* *Technical Leaders*

*Exam Information*

* ***Exam number:******AD0-E709***
* ***Exam name:******Adobe Certified Expert - Adobe Commerce Developer***
* ***Certificate level: Certified Expert***
* ***Status: Active***
* ***Available languages: English***
* ***Number of questions: 50***
* ***Formats: Multiple choice***
* ***Duration: 120******minutes***
* ***Delivery: Onsite/Online proctored (requires camera access) or test center proctored***
* ***Passing mark: 30/50***
* ***Price:******$225 USD / $150 USD (India only)***

[*Schedule your Exam*](https://learning.adobe.com/api.certify.json)

*Minimum Candidate Experience*

*The Adobe Commerce Developer is considered an intermediate level role and has at least 2 years’ hands-on experience with Magento Open Source or Adobe Commerce and strong technical skills. They should have the ability to translate the needs expressed by task requirements into a technical solution.*

*The candidate should be comfortable using the following technologies:*

* *Adobe Commerce - version 2.4.3*
* *PHP*
* *XDebug/PHP debugging tools, browser debugging tools*
* *Linting tools*
* *Composer*
* *SSH, basic Linux*
* *Redis, Elasticsearch, SQL, Varnish, RabbitMQ*
* *API validation tools, API client tools (Postman)*
* *Version control software such as Git*

*Exam Objectives and Scope*

*Section 1: Adobe Commerce Architecture and Customization Techniques*

* *Demonstrate how to effectively use cache in Adobe Commerce*
* *Build, use, and manipulate custom extension attributes*
* *Recommend solutions for how to apply theme custom updates to product/category pages*
* *Correctly apply observers, preferences, and plugins (effects of sort order)*
* *Demonstrate the ability to use the configuration layer in Adobe Commerce*
* *Demonstrate knowledge of how routes work in Adobe Commerce*
* *Demonstrate ability to customize pagebuilder*
* *Determine the effects and constraints of configuring multiple sites on a single instance*
* *Describe the capabilities and constraints of dependency injection*
* *Describe how to add and configure fields in store settings*
* *Explain the use cases for Git patches and the file level modifications in Composer*
* *Create new commands in CLI*
* *Demonstrate how to write an integration test*
* *Identify Adobe Commerce security features (CSP, escaping, form keys, sanitization, reCAPTCHA, input validation)*
* *Explain how the CRON scheduling system works*
* *Demonstrate the ability to load and manipulate data*
* *Demonstrate the ability to use App emulation*

*Section 2: Working with Databases and EAV*

* *Manipulate EAV attributes and attribute sets programmatically*
* *Demonstrate the ability to extend the database schema*
* *Demonstrate the ability to import / export data from Adobe Commerce*
* *Describe how to use patches and recurring set ups to modify the database*

*Section 3: Developing with Admin*

* *Demonstrate the ability to update and create grids and forms*
* *Extend Grid actions*
* *Demonstrate the ability to create modifier classes*
* *Demonstrate the ability to restrict access to ACL*

*Section 4: Customizing the Catalog*

* *Apply changes to existing product types and create new ones*
* *Modify and extend existing Catalog entities*
* *Demonstrate the ability to manage Indexes and customize price output*
* *Explain how multi-source inventory impacts stock (program level)*

*Section 5: Customizing Sales Operations*

* *Demonstrate the ability to develop new payment methods or customize existing payment methods*
* *Demonstrate the ability to add and customize shipping methods*
* *Demonstrate the ability to customize sales operations*
* *Explain how to customize totals*

*Section 6: APIs and Services*

* *Demonstrate the ability to create new APIs or extend existing APIs*
* *Demonstrate the ability to use the queuing system*

*Online Practice Test*

*The practice test is built to the same rigor and the same number of questions as the actual exam. It allows you to gauge your preparation for the actual test.*

[*AD4-E709 Schedule your Practice Test*](https://learning.adobe.com/api.certify.json)

* *Mark your answer in each question.*
* *Use the link “Send Comments for this Question” to provide specific feedback.*
* *Click Next on the upper portion of the screen to save your answer and move to the next question. You may return and revise your question within the specified time.*
* *On the last question, click Submit Exam to submit all your answers.*
* *Complete the short survey if there is one. Click Submit.*

*Preparing for the Exam*

***You are not required to complete training before taking the exam, and training alone will not provide you with the knowledge and skills required to pass the exam. A combination of training and successful, on-the-job experience are critical to providing you with the repository needed to pass the exam.***

*Recommended Preparation:*

* [*Magento at GitHub*](https://github.com/magento/magento2/tree/2.4.3)
* [*Adobe Commerce 2.4 Developer Guide*](https://devdocs.magento.com/)
* *PHP documentation*
* [*Adobe Commerce (Magento Stack Exchange)*](https://magento.stackexchange.com/questions)

*Questions and Inquiries?*

***Please***[***contact***](https://learning.adobe.com/products-resources/contact-us.html?contactType=certificationLl3OYi/)***the Adobe Credential Program Customer Support team.***

***The content in this exam guide is subject to changes and updates. Last update August 2021.***