

Adobe Experience Manager Developer Adobe Certified Expert Exam Guide

Exam number: ADO-E103

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About Adobe Certified Expert (ACE) Exams

An Adobe Certified Expert (ACE) has proven knowledge and experience to help clients optimize the value of their Adobe solution.

Adobe's certification exams are developed following industry-accepted standards to ensure validity and reliability. We work with industry experts to create our exams, which represent real-world requirements and objectives for the job roles we certify.

This guide is designed to provide you with the recommendations needed to prepare for the ACE exam and help you determine when you are ready to take the exam.

The content of this exam guide is subject to updates and changes. Please check for latest versions at [Adobe Certification](#).

Adobe Experience Manager Developer Exam Information

- Exam name: Adobe Experience Manager Developer Exam
- Exam number: AD0-E103
- Number of questions: 50
- Time limit: 90 minutes
- Format: Multiple choice, multiple select
- Language offered: English
- Delivery: Online proctored (requires camera access) or test center proctored
- Passing score: All Adobe exams are reported on a scale of 300 to 700. The passing score for each exam is 550. For more information about scaled scoring, visit the [FAQ page](#).

Target Audience

- Java developers
- Developers with CMS experience
- Developers with AEM experience
- Developers with an understanding of REST architecture
- Developers with front end skills looking to migrate to AEM

The Adobe Experience Manager Developer Role

At a minimum, the candidate seeking certification should have and be able to:

- A minimum of 1-year AEM development experience using version 6.3 or higher.
- Create, extend and configure templates and components
- Build and configure OSGi components and services
- Use Sling and JCR API
- Have general knowledge about building using Apache Maven and be able to set-up their own environment (e.g., Java SDK, and AEM)
- Test applications and troubleshoot AEM projects

The minimally-qualified AEM Developer should be familiar with the following tools and comfortable in the following environments:

- Apache Maven
- FileVault (vlt)
- Java SDK
- Unit testing frameworks (e.g., JUnit, TestNG, AEM Mocking)
- Linux

Adobe Experience Manager Developer Exam Topics

The tasks measured by the exam are grouped into these domains:

Section	Domain	Domain Weight
Section 1:	Installation and Configuration of AEM	10%
Section 2:	Templates and Components	40%
Section 3:	OSGi Services	20%
Section 4:	Packaging and Deploying AEM projects	10%
Section 5:	Troubleshooting AEM projects	20%

How do I know if I am ready to take the exam?

There are no guarantees that you will pass the test. However, taking note of the recommended training courses and the minimum tasks listed under the Adobe Experience Manager Developer role will help you determine if you are ready to take the test.

Since Adobe exams measure knowledge *and* skills for a specific job role, one of the best ways to prepare for the exam is to have the minimum work experience, as described in this guide.

		<i>Am I ready?</i>
Section 1:	Installation and Configuration of AEM	
	<ul style="list-style-type: none"> Identify the steps needed to install AEM developer instances 	
	<ul style="list-style-type: none"> Identify the steps necessary to setup and manage users, groups, and Access Control List (ACL) permissions after installation 	
	<ul style="list-style-type: none"> Determine the correct approach to configure and manage replication agents 	
	<ul style="list-style-type: none"> Apply procedural concepts necessary to manage existing dispatcher configurations 	
	<ul style="list-style-type: none"> Determine the appropriate method to install service packs and hotfixes on an existing AEM environment 	
Section 2:	Templates and Components	
	<ul style="list-style-type: none"> Determine the correct approach to create and manage custom components and their Touch UI dialogs 	
	<ul style="list-style-type: none"> Determine the correct approach to create and use clientlibs for CSS and JavaScript files 	
	<ul style="list-style-type: none"> Apply procedural concepts to extend out-of-the-box and AEM Core components to create new templates and components 	
	<ul style="list-style-type: none"> Determine the correct approach to extend functionality using out-of-the-box APIs 	
	<ul style="list-style-type: none"> Apply procedural concepts necessary to create and manage custom AEM templates 	
	<ul style="list-style-type: none"> Apply procedural concepts to use FileVault (vlt) to export templates, components, and pages to the local filesystem 	
	<ul style="list-style-type: none"> Apply procedural concepts to implement workflow steps and processes 	
Section 3:	OSGi Services	
	<ul style="list-style-type: none"> Determine the correct approach to create custom OSGi services and components 	
	<ul style="list-style-type: none"> Determine the correct approach to create and manage custom OSGi configurations through code and Felix console 	
	<ul style="list-style-type: none"> Apply procedural concepts to manage OSGi bundles 	
Section 4:	Packaging and Deploying AEM projects	
	<ul style="list-style-type: none"> Identify the steps necessary to create AEM content packages using Maven 	
	<ul style="list-style-type: none"> Determine the correct method to deploy packages in AEM 	

	manually or by using Maven	
Section 5:	Troubleshooting AEM projects	
	<ul style="list-style-type: none"> Identify the steps necessary to create custom logs and change their logging levels 	
	<ul style="list-style-type: none"> Troubleshoot run time, build, and dependency issues for OSGi bundles 	
	<ul style="list-style-type: none"> Identify the steps to configure AEM to enable remote debugging 	
	<ul style="list-style-type: none"> Given a scenario, determine the correct method to access and analyze AEM log files 	
	<ul style="list-style-type: none"> Troubleshoot and debug problems using AEM system consoles 	
	<ul style="list-style-type: none"> Troubleshoot local rendering of pages using browser client-side tools 	
	<ul style="list-style-type: none"> Troubleshoot caching issues related to the Dispatcher and browsers 	

What Resources are Available to Prepare for the Exam?

You are not required to complete training before taking the exam. However, training can significantly increase your knowledge of and skills with Adobe Experience Manager. It is important to note that training alone will not provide you with the knowledge and skills required to pass the exam. Successful, on-the-job experience is critical to providing you with the knowledge needed to pass the exam.

Recommended training:

- [Develop Websites and Components in Adobe Experience Manager](#)
- [Extend and Customize Adobe Experience Manager](#)

Additional study materials:

- [AEM Sites Implementation Guide](#)

Training for Adobe Partners

A variety of training and resources are available for Adobe Solution Partners. To access these resources, you can log in to the [Solution Partner Portal](#) with your Adobe ID and visit the [Training landing page, whose link is highlighted, as shown](#).

The screenshot shows the Adobe Solution Partner Program website. At the top, there is a navigation bar with the Adobe logo and 'Adobe Solution Partner Program' on the left. On the right, there are links for 'PARTNER FINDER', 'ADOBE EXCHANGE', 'Sign in', and a 'Join now' button. Below this is a secondary navigation bar with 'Home', 'Solutions', 'Marketing', 'Use Cases', 'Enablement', 'News', 'Events', and 'About', along with a 'FIND ASSETS' button. A blue banner below the navigation bars contains the text: 'Please make sure you are logged in to see all exclusive content. Many assets and pages are only accessible behind login.'

Below the banner, there are three main content blocks:

- 2018 Adobe SPP Survey Results**: A card with a glowing lightbulb image. Below the title, it says: 'We heard you! See how we're improving the SPP so that you'll have the best year with Adobe yet. ... [Read more >](#)'
- Summit + Partner Day Conference Pass Winners**: A card with an image of a person on a stage. Below the title, it says: 'See which partners won Summit passes in our January drawing. The next drawing will be held on Feb 2, 2019. ...'
- Quick Links**: A list of links with a red arrow pointing to 'Access Training and Resources by Solution':
 - ▶ Update Profile
 - ▶ Catchup on the latest Partner News
 - ▶ Attend a Partner Event
 - ▶ Access Partner Webinar Recordings
 - ▶ Access Training and Resources by Solution
 - ▶ Download Partner Learner Journeys

From there, you can select your solution of interest and access on-demand, instructor-led, and onsite training options.

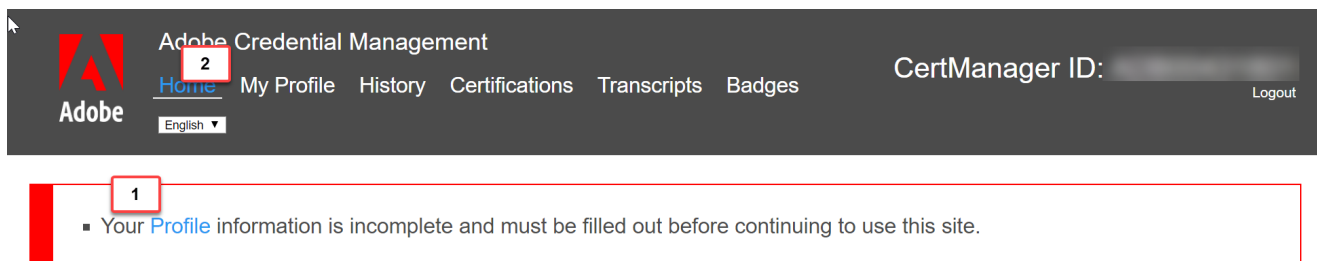
- On-demand Training: All Partners have access to on-demand training resources for sales, technical, and delivery roles. Resources include self-paced learning modules, eSeminar videos, quizzes, exams, and “test outs” to help measure comprehension - all at no cost!
- Virtual Instructor-led (vILT) Training: Partners at the Business level and above can access vILT through the learning management system (LMS). These trainings are 100% subsidized.
- In-person Instructor-led (ILT) Training: Partners also have access to training delivered [through Adobe Digital Learning Services \(ADLS\)](#). ADLS offers comprehensive, hands-on courses across all job roles. Learn from Adobe experts in a virtual classroom or live, in-person training at any one of our worldwide Adobe training centers. The cost of these courses vary. However, Partners receive a 15-30% discount based on their Partner level in the Solution Partner Program (SPP).
- On-site Training: Get your team up-to-speed quickly with on-site training where we come to your location or you can bring your team to one of our worldwide training centers. ADLS offers flexible, convenient instructor-led training for teams virtually or in-person. We can also customize content to match your unique learning requirements.

Partners also have access to Certification Learner Journeys and Certification Paths. Please visit the [Solution Partner Portal Certification page](#) to access these valuable resources. Not registered for the Solution Partner Portal? Please follow [these instructions](#) to register.

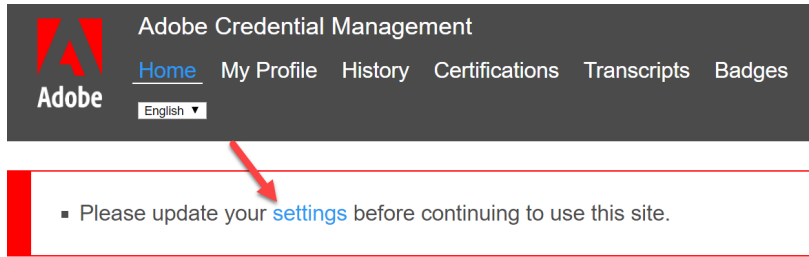
How Do I Register for the Exam?

To register for the exam at a PSI testing center:

1. Visit Adobe’s [credential management system](#) logon page. The logon requires that you have an Adobe ID. If you do not have an Adobe ID, click the **Get an Adobe ID** link.
2. After logging on, if you have never taken an Adobe exam before, you will be instructed to create a Profile. Click the blue **Profile** link (1) in the message area or click **My Profile** (2) at the top of the page to open the My Profile page.



3. After creating your Profile, you will be instructed to update your opt-in Settings. Click the blue Settings link to configure your settings.



4. Once logged on, click “Home” then click “Schedule your exam at PSI.”
 5. You will be directed to a new page within CertMetrics. where you will click “Click here to log in to PSI.”
 6. You will be taken to a page hosted by our exam delivery vendor, PSI, that allows you to search for, display, and register the available exams.
 7. Click the **Schedule Exam** button.
 8. Select the Delivery mode: **Test Center** or **Remote Online Proctored Exam** and then click **Continue**. A pop-window displays, asking if you want PSI to know your location. Click **Allow** to have PSI use your location information or **Block** to search manually.
 9. Scroll through the list of available exams and press the “Schedule Exam” button for the exam you want to take.
 10. Select a delivery mode for your exam by choosing either **Test Center** or **Remote Online Proctored Exam**.
 11. Select your exam language from the **Select Language** drop-down menu.
 12. Click through the calendar to select an available date, which will appear as a green date in the calendar. Once the date is selected, available times display in the right column. Select a start time.
 13. Click **Continue** to display and confirm the schedule details. Once you have reviewed the details, click **Continue** to receive a booking confirmation and proceed to payment information.
 14. The Payment window displays. Fill out all the required fields and click **Pay Now** to process your payment.
 15. After the payment is processed, you will receive an email confirmation with your registration details and a receipt.
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Support

For information on certification, visit the [Solution Partner Portal](#) website. To contact us, please send an email to [Certification Support](#).

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