



# Adobe Certified Expert: LiveCycle ES2 Digital Security Exam



Adobe Enterprise Training has created and published this exam guide to help prepare partners, customers and consultants who are actively seeking accreditation in the Adobe Certified Expert program. This guide, while designed to describe the exam in detail and provide as much information as possible, is not meant to be the sole means of exam preparation. Adobe Enterprise Training offers courses that provide in-depth training on the exam content. Hands-on experience with the Adobe LiveCycle suite of tools is also a critical element in preparing to pass any Adobe certification exam.

Adobe® LiveCycle® Enterprise Suite 2.5 software can help extend the value of existing back-end systems by enabling developers to build and deploy applications quickly and easily, and by empowering business users to manage application environments based on their specific needs. LiveCycle ES2.5 makes it easier for people to interact with information through intuitive user experiences, improved efficiencies through business process automation, and enhanced customer service through personalized communications management.

To be certified as an Adobe Certified Expert - LiveCycle ES2 Developer: Digital Security, you must pass this exam and the LiveCycle ES2 Core exam. The following table lists the available LiveCycle Developer certification elective exams.

Elective Exams
9A0-137 Adobe LiveCycle ES2 Process Automation
9A0-138 Adobe LiveCycle ES2 Document Output
9A0-139 Adobe LiveCycle ES2 Data Capture
9A0-140 Adobe LiveCycle ES2 Digital Security

## Exam Description

The certification consists of achieving the minimum passing score on a multiple choice test. The certification exam has a time limit of 40 minutes, and includes a timer so that the student is aware of how much time is remaining.

The following lists the topic areas and percentage of questions delivered in each topic area.

Topic Area	% of Exam	# of Questions
Working with client-side security	19%	5
Using LiveCycle Digital Signatures	37%	10
Understanding LiveCycle Rights Management	33%	9
Using LiveCycle encryption services	11%	3

## Exam Scoring

The exam contains 27 questions and an overall score of 72% is required to pass the test. After taking the test, test takers will be immediately provided with the official score for the exam. They will also receive an email with the official exam result.

## Scheduling Exams

The LiveCycle ES2 Digital Security ACE Exam is delivered via testing centers in 270 locations throughout the U.S. and 17 other countries around the world. Students may create a certification account through Adobe's Web site and schedule their certification in the location of their choice and at a time that is convenient for them. To register for the LiveCycle ES2 Digital Security ACE exam, go to the *Pearson VUE website* and click the link to register for the exam.

## Exam Preparation

If you have been exposed to LiveCycle for at least one year and have hands on development experience, it is likely that you will be able to pass the Digital Security exam with only a review of the preparation guide and the associated product documentation related to each of the topics. However, if you are new to LiveCycle, you should plan on several months of use before being prepared to pass this certification.

## Exam Topics

Following is a detailed outline of the information covered on the exam.

### Working with client-side security

- Given an encryption type, explain when to use that encryption type (Encryption types include: password, digital certificate, rights management policy)
- Configure enhanced security in Acrobat for forms that use Web services (Cross-domain)
- Understand the client-side signature validation requirements (Requirements include: trusted identity, CDS, AATL, enterprise trust settings)

### Using LiveCycle Digital Signatures

- Given a signature type, explain the purpose of and when you would use that signature type (Signature types include: Certifying, recipient, XML Data)
- Understand the architecture of a signed PDF document (Includes: understanding snapshots)
- Applying a digital signature as part of a process
- Validate a digital signature as part of a process (Includes: simultaneous validation of multiple signatures, validating XML data signatures)
- Understand the trust store and its relationship to digital signatures (Includes: understanding the differences between certificates, credentials, and HSM configurations)
- Explain how to use field form locking to implement sequential signing workflows and sectional signing workflows

### Using LiveCycle Rights Management

- Understand User Manager and its relation to LiveCycle Rights Management
- Understand the architecture of Rights Management and how documents are protected (Includes: understanding what is a protected document)
- Create and manage policy sets
- Create and manage policies (Includes: understanding how users, groups and dynamic groups work, understanding how permissions work and vary between PDF and Office, advanced policy settings)
- Apply policies to documents (Includes: programmatically protecting documents, programmatically managing existing documents)
- Auditing policy protected documents

### Using LiveCycle encryption services

- Given an encryption type, describe that encryption type (Encryption types include: password, certificate, rights management)
- Given an encryption type, describe how it is used to encrypt or decrypt a PDF document (Encryption types include: password, certificate, rights management)
- Considerations when designing security based workflows (e.g. Unlock operation and Run As service configuration)

## Study Suggestions

Following are suggested steps to help you prepare for the LiveCycle ES2 Digital Security ACE Exam.

### Recommended Classroom Training

- *LiveCycle ES2.5: Introduction to Rights Management*
- *LiveCycle ES2.5: Introduction to Digital Signatures*

### Community Content

- *Security Matters Blog*
- *Rights Management Portfolio*
- *Digital Signatures Portfolio*
- *LiveCycle ES2.5 Overview*

### Online Resources

- *LiveCycle in Three Days video training*
- *Rights Management product page*
- *Digital Signatures product page*
- *LiveCycle Developer Center*
- *LiveCycle Documentation*
- *LiveCycle ES2 Self-paced Learning Resources for Designers and Developers*
- *Enterprise Cafe*
- *Tour de LiveCycle*

### Exam Preparation Checklist

The checklist below will help guide you through the process of obtaining ACE certification.

- Review this exam guide to become familiar with the topic areas and objectives of the exam
- Identify the topic areas and objectives you need to study
- Determine which study materials you need to improve your skills
- Study for the exam
- Contact Pearson VUE to register for an exam
- Take the exam - Your score is electronically reported to Adobe

### Recertify when necessary

Once obtained, your certification is valid until 90 days after the exam version of your certification is retired. Adobe will e-mail you a reminder when your certification is due for renewal and will let you know when you need to take another exam.

### Sample Exam Questions

Following are sample questions to help you prepare for the LiveCycle ES2 Digital Security ACE Exam.

1. Which setting is NOT exported when creating a security settings file?
  - A. Automatic Update Settings
  - B. Security Policies
  - C. Signature Validation Settings
  - D. Enable Enhanced Security

Correct Answer: D

2. You need to protect a PDF document for a Request for Proposal (RFP). All users involved have digital certificates issued to them. The protection requirements state that all users can open the document, only certain users can print the document, and access to the document must expire after fourteen days. Which encryption type should you use?
- A. Password
  - B. Certificate
  - C. LiveCycle Rights Management
  - D. Certified Document Service

Correct Answer: C

3. In your cross domain policy file, you need to only allow HTTPS requests to resources on your domain. Which element should you include?
- A. `<allow-access-from domain="www.example.com" secure="true"/>`
  - B. `<allow-http-request-headers-from domain=" www.example.com " headers="SSL"/>`
  - C. `<site-control permitted-cross-domain-policies="by-https"/>`
  - D. `<site-control permitted-cross-domain-policies="none"/>`

Correct Answer: A

4. Users of a Web site must fill in a PDF form online and submit the data. Which signature type should you use to ensure no tampering has occurred with the data?
- A. Approval signature
  - B. XML signature
  - C. Certifying signature
  - D. MDP+ signature

Correct Answer: B

5. You have built a process to certify PDF documents. You will use a credential issued from a Certified Document Services (CDS) provider to certify the documents. How must you configure the Trust Store?
- A. Import the CDS issued credential into the Certificate storage area
  - B. Import the CDS issued credential into the Credential storage area
  - C. Configure the Hardware Security Module (HSM) credential to access the credential from a specific HSM device
  - D. Configure LiveCycle to use a custom SPI to communicate with the CDS providers certificate server

Correct Answer: C

6. LiveCycle Rights Management has been configured to allow all corporate users to create their own policies. Which role must be assigned?
- A. LiveCycle Rights Management Super Administrator
  - B. LiveCycle Rights Management End User
  - C. LiveCycle Rights Management Policy Set Administrator
  - D. LiveCycle Rights Management Invite User

Correct Answer: B

7. Your user requires the ability to revoke, unvoke and/or switch policies on documents protected by any document publisher from the policy set. Which Policy Set Administrator permission should be set?
- A. Manage documents
  - B. Manage policies
  - C. Manage Document Publishers
  - D. Delegate

Correct Answer: B



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