



Adobe Certified Expert: LiveCycle ES2 Document Output 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: Document Output, 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 45 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
Designing templates for output	18%	6
Creating PDF documents and print streams with XDP templates	15%	5
Manipulating PDF documents	21%	7
Creating PDF documents from other document types	21%	7
Converting PDF documents to other document types	15%	5
Understanding Production Print	10%	3

Exam Scoring

The exam contains 33 questions and an overall score of 68% 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 Document Output 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 Document Output 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 Document Output 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.

Designing templates for output

- Designing pagination by using subforms and subform properties
- Designing duplex printing layout by using page sets
- Selecting the appropriate paper trays used for printing
- List and describe best practices for data binding
- Optimizing forms for print

Creating PDF documents and print streams with XDP templates

- List and describe the formats produced by Output
- Controlling printer features with XDC
- Managing single and multi-record data sets including pattern matching
- Flattening interactive forms
- Explain the options for migrating an existing customer from Central Pro Output Server to LiveCycle ES2

Manipulating PDF documents

- Assembling and disassembling PDF documents
- Understand dynamic form restrictions
- Modifying and manipulating documents (Includes: headers, footers, watermarks, overlay, TOC)
- Extracting document properties
- Creating portfolios
- Assembling XDP templates
- Describe the properties of the AssemblerResult object

Creating PDF documents from other document types

- List and describe the file types supported by PDF Generator
- Configuring multithreading on the PDF Generator service
- Given an operating system, describe the features that are supported by PDF Generator
- Managing file type settings and Adobe PDF settings by using the Admin UI

Converting PDF documents to other document types

- Converting documents to PDF/A
- Converting PDF documents to an image and other formats (Formats include: TIFF, PNG, JPEG, PS, TEXT, HTML)

Understanding Production Print

- Identify opportunities that require Production Print
- List and describe the points of integration between Production Print and LiveCycle

Study Suggestions

Following are suggested steps to help you prepare for the LiveCycle ES2 Document Output ACE Exam.

Recommended Classroom Training

- *LiveCycle ES2.5: Document Output Specialist*

Community Content

- *LiveCycle ES2.5 Overview*
- *Using Assembler to Create PDF Portfolios*
- *LiveCycle PDF Generator Best Practices*
- *Record-based processing using LiveCycle Output ES*
- *Dynamic Assembly of an XDP Form*
- *Making the Case for PDF/A and Adobe® LiveCycle®*
- *Adobe LiveCycle Production Print ES2*
- *Supported file formats in Adobe LiveCycle PDF Generator ES2*
- *LiveCycle Production Print Resources*

Online Resources

- *LiveCycle in Three Days video training*
- *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 Document Output ACE Exam.

1. You want to cache templates on the server. Where is this setting in LiveCycle Designer?

- A. File > Form Properties > Performance
- B. Tools > Options > Document Handling
- C. Tools > Template Manager > Forms
- D. File > Form Properties > PDF Print Options

Correct Answer: A

2. Which format can LiveCycle Output produce?

- A. XFA
- B. XML
- C. AFP
- D. PCL

Correct Answer: D

3. How do you specify input trays and printer-specific fonts?

- A. Specify them in your process in LiveCycle Workbench
- B. Specify them in LiveCycle Designer
- C. Pick them in the LiveCycle Admin UI web interface
- D. Edit your XDC file in a text editor or LiveCycle Workbench

Correct Answer: D

4. You want to specify input trays and printer-specific fonts. What should you do?

- A. Specify the input trays and printer-specific fonts in your process in LiveCycle Workbench
- B. Specify the input trays and printer-specific fonts in LiveCycle Designer
- C. Define the input trays and printer-specific fonts in the LiveCycle Admin UI web interface
- D. Define the input trays and printer-specific fonts in your XDC file using LiveCycle Workbench

Correct Answer: D

5. How do you send each document in a batch separately to the printer in LiveCycle Output ES2?
- A. Ensure the correct number of documents is specified as a variable from XPath
 - B. Check the box for Generate Multiple Streams in LiveCycle Workbench ES2
 - C. Process each document in the batch through the SendtoPrinter operation
 - D. Use the generatePDFOutput operation first to ensure compatibility with the XDP

Correct Answer: B

6. You want include multiple templates when merging with a single data stream. What should you do?
- A. Create a custom component to handle the data stream and templates
 - B. Specify the URI for each output document in the Content Root URI
 - C. Ensure that the option Generate Multiple Streams is enabled
 - D. Define the Pattern Matching Rules

Correct Answer: D

7. What happens when you flatten an interactive form?
- A. The form becomes non-interactive
 - B. Prevents all but administrators from changing the form
 - C. The form will become Section 508 compliant
 - D. Form data will be encrypted

Correct Answer: A

8. Which is a benefit of flattening an interactive form?
- A. Generates a document of record
 - B. Adds the data node to the document metadata
 - C. Ensures the document meets compliance guidelines
 - D. Password protects the document

Correct Answer: A

9. Which is a component of the Central Migration Bridge?

- A. The Central Control service
- B. The Central Messaging Agent
- C. The Central dataAccess
- D. The Central Preview Agent

Correct Answer: C

10. Which statement about LiveCycle Output is true?

- A. The Output service only caches Form designs and NOT fragments, images.
- B. The in-memory cache has a limited size and is NOT deleted when you restart the server.
- C. The disk cache has a larger capacity than the in-memory cache and is retained when you restart the server.
- D. Clicking the Reset Cache button in the administration console clears both the in-memory cache but NOT the disk cache.

Correct Answer: C



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Adobe Systems Incorporated
345 Park Avenue
San Jose, CA 95110-2704
USA
www.adobe.com

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