



# Adobe Certified Expert: LiveCycle ES2 Data Capture 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: Data Capture, 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
Using PDF forms for data capture	41%	12
Using guides for data capture	38%	11
Working with barcodes	21%	6

## Exam Scoring

The exam contains 29 questions and an overall score of 66% 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 Data Capture 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 Data Capture 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 Data Capture 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.

### Using PDF forms for data capture

- Understand the role of LiveCycle Designer when creating templates for LiveCycle Forms (includes: fragments, stitching)
- Understand the structure of form data (includes: data connections to a data structure, configuring data submission, configuring variables based on data type)
- List and describe the options for submitting data (options include: PDF, XML, XDP)
- Using PDF forms in a user-centric process (includes: rendering forms, handling submitted data/valid and invalid, pre-populating data, Reader Extensions)

### Using guides for data capture

- Understand the role of the data model (includes: entities, properties, relationships, constraints and validations)
- Understand the Guide Builder perspective
- Creating a guide (includes: layout, data binding, styling, understanding how to extend a guide)
- Adding guide behavior (includes: working with display rules & expressions, calling a web service)
- Using guides in a user-centric process (includes: rendering guides, handling submitted data/valid and invalid, pre-populating data)

### Working with barcodes

- Describe the proper workflow when using barcodes
- Understand the capabilities when using barcodes
- Implementing barcodes correctly

## Study Suggestions

Following are suggested steps to help you prepare for the LiveCycle ES2 Data Capture ACE Exam.

### Recommended Classroom Training

- *LiveCycle ES2: Designer Specialist*
- *Developing a LiveCycle ES2.5 Application*
- *LiveCycle ES2.5: Process Management Specialist*

### Community Content

- *LiveCycle ES2.5 Overview*
- *Best Practices of Adobe LiveCycle Barcoded Forms and PDF417 Barcodes*
- *Best Practices for Model-Driven Development with Adobe LiveCycle ES2 Guides*
- *Ask the Experts recording on Data Models and Guides in LiveCycle ES2*

### 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 Data Capture ACE Exam.

1. You want to pre-populate a form that will be displayed in Workspace. Which method should you use?
  - A. Sending the rendered PDF form and the XML data to Workspace and let it merge the two together.
  - B. Create a custom render process that merges the data with the form prior to displaying it in Workspace.
  - C. Once the form has been delivered to the client, have the form call a web service to retrieve data to populate the form.
  - D. Create a process that will gather the data once the form has been submitted.

Correct Answer: B

2. When should you create a custom submit service for a form or guide?
- A. When the form data needs to be submitted to another LiveCycle server
  - B. When the form needs to be taken offline
  - C. When the form needs to be pre-populated before being displayed to the user
  - D. When the form data needs to be formatted in a different format because it will be passed to another application or process

Correct Answer: D

3. You want to bind a property from an entity in the Data Model view to a different node in the Data Model view. What procedure describes what you should do?
- A. Define an expression in the Data Model view to accomplish the copy.
  - B. Create a field in the Guide panel to store the information
  - C. Create a Data Binding expression in the Data Model view
  - D. It cannot be done

Correct Answer: C

4. You want to add a field to hold input from the user but you do not want this data to be part of the submitted data. Which solution approach will satisfy the requirement?
- A. Add a new Input in the Data Model view then drag that input onto the appropriate panel
  - B. Define a new property in the entity of the data model, then drag that new property from the Data Model view onto the appropriate panel
  - C. Create a Data Binding expression to control the input of the field
  - D. Add a new panel and use the panel Display Rules to control the visibility of the panel.

Correct Answer: A



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