

Adobe® Certified Expert Program

Product Proficiency Exam Bulletin

Adobe® Lightroom® 3 Photography Exam Exam # 9A0-159

ACE Certification Checklist

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

- Review this bulletin 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.
- For a list of recommended study materials, visit:
<http://www.adobe.com/misc/training.html>
- Study for the exam.
- Contact Pearson VUE to register for an exam: *<http://www.pearsonvue.com/adobe>*
- When registering for the exam, refer to the exam number located at the top of this bulletin.
- Take the exam. Your score is electronically reported to Adobe and will also be displayed when you complete your exam.
- Upon passing the exam, your certificate will be sent to you via email. Please ensure that you have provided an accurate email address.
- You can update your certification profile by going to: <http://www.adobe.com/support/certification/community.html>. You will need the information provided on your score report to create a user account.

Exam Structure

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

| Topic Area | % of Exam | # of Questions |
|--|-----------|----------------|
| Understanding the digital photography workflow | 4% | 3 |
| Configuring Lightroom | 6% | 4 |
| Understanding workflow in Lightroom | 4% | 3 |
| Understanding digital asset management | 6% | 4 |
| Importing assets | 10% | 7 |
| Working with the Library module | 18% | 13 |
| Working with the Develop module | 11% | 8 |
| Working with output modules | 16% | 11 |
| Photoshop CS5 for photographers | 14% | 10 |
| Adobe Bridge and Camera Raw for photographers | 11% | 8 |

Number of Questions and Passing Score

- 71 questions
- 68% minimum required to pass

Test Content: Topic Areas and Objectives

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

1. Understanding the digital photography workflow

- Explain the role of Photoshop and Bridge/ACR in a digital photography workflow.
- List and describe the objectives of a good digital workflow.
- Compare and contrast a non-destructive workflow to a traditional pixel-based workflow.

2. Configuring Lightroom

- List and describe the key elements of the user interface in Adobe Lightroom. (Key elements include: Module picker, panels, filmstrip, navigation, key commands)
- Describe the benefits of working with the Lightroom catalog model. (Including multiple catalogs)
- Given a scenario, configure preferences. (Scenarios include: General, File Formats, File Management, Interface)
- Describe the options available for configuring panels and the Workspace.

3. Understanding workflow in Lightroom

- Describe the role of templates and presets in Lightroom
- Describe how to use Lightroom to find or rate your best photographs from a shoot.

- Synchronize settings from one photograph to multiple photographs.

4. Understanding digital asset management

- Describe considerations and strategies related to online and offline file management.
- Explain the role of metadata in asset management.
- List and describe the type of data that can be associated with photographs.
- Describe how to manage a multi-machine workflow.

5. Importing assets

- List and describe the file formats that are supported in Lightroom.
- Import assets from a card.
- Import assets from a local hard drive.
- Import assets by using a Watched folder.
- List and describe the functionality, features, and how to shoot while tethered. (Includes: Tethered Capture Settings)
- Given an import method, describe the options available for handling files. (Options include: renaming, backup, copying, file references)
- Apply information to photographs that are imported.

6. Working with the Library module

- Given a panel in the Library module, describe the purpose and features of that panel. (Including customizing view options)
- Describe the relationship between the Lightroom catalog, folders on disk, and the files referenced in a catalog. (Including: the relationship between an original photograph, a virtual copy, and an instance of a collection.)
- Given an option, explain how to navigate between photographs and within a photograph. (Options include: Navigator panel, Loupe view, Compare View, Survey View)
- List and describe the options Lightroom provides for locating specific sets of photographs. (Options include: Find panel, Metadata browser)
- Assign, work with, and locate photographs by using keywords.
- Demonstrate an understanding of the options available for describing your photographs by using metadata.
- List and describe the methods Lightroom provides for grouping and categorizing photographs. (Methods include: Flags, ratings, labels, keywords, and stacks)
- Given a view, synchronize settings across multiple photographs. (Views include: Grid and Loupe.)
- Explain the purpose for and usage of Quick Develop and the role of the histogram in the Library module.
- List and describe the differences between folders and collections.

- Given a scenario, describe the differences between deleting and removing photographs. (Scenarios include: Deleting originals, virtual copies, and instances; deleting from folders, and collections.)
- Explain how metadata is handled in Lightroom.
- Configure the Lightroom Publishing Manager and publish images to Flickr.

7. Working with the Develop module

- Describe the limitations associated with processing JPEG files.
- Explain how to adjust the white balance of a photograph by using options in the WB segment of the Basic panel.
- Explain how to adjust the tonality of a photograph by using options in the Tone segment of the Basic panel.
- Explain how to adjust the saturation/vibrance of a photograph by using options in the Colors segment of the Basic panel.
- Explain the role of Camera Profiles in the raw workflow
- Explain how to apply a local adjustment utilizing the brush
- Explain how to apply and modify a graduated filter adjustment
- Explain the purpose of and how to change the process version of images.

8. Working with output modules

- Describe the default behavior of output modules. (Behaviors include: persistence in settings, creating settings, applying templates, updating templates)
- Describe the role and functionality for identity plate inclusion in output modules.
- Describe the difference between application managed color and printer managed color.
- Describe the differences in behavior when enabling or disabling the Print Resolution setting in the Print Job panel.
- List and describe the benefits and behaviors of draft mode printing.
- Explain how Lightroom saves and the benefits of saving printer driver settings in templates.
- List and describe the major formats available for Web output.
- Describe the Web Gallery export and upload process.
- List and describe the playback options available for slideshows.
- Describe the options related to and add text to a slideshow.
- Add music to slideshows.

9. Photoshop CS5 for photographers

- Explain when you would incorporate Photoshop into your workflow.
- Describe the available options for formatting photos in Photoshop.
- Explain how Lightroom indicates and handles photos that have been edited in Photoshop.
- Explain how Lightroom and Photoshop share develop settings and other metadata.

- Explain how to automate Photoshop from Lightroom. (Panorama Stitching, HDR, Compositing, Smart Objects)
- Explain how blending can be utilized for photography
- Explain how to utilize Panorama Stitching
- Explain the benefit of a Smart Object workflow
- Make selections and remove unwanted objects from an image by using Content Aware Fill.
- List and describe the options available for merging images by using Merge to HDR Pro.

10. Adobe Bridge and Camera Raw for photographers

- Describe the auto-stacking functionality in Bridge CS5
- Explain how collections can be utilized in Bridge CS5
- Describe how to use Review Mode
- Explain how the Lightroom Develop module features are represented in Camera Raw 6
- Explain the update process for Camera Raw 6
- Describe the output options in Bridge CS5
- List and describe the functionality provided in Camera Raw 6 for automatically performing lens corrections.
- Manually correct issues with images in Camera Raw 6 by using options in the Lens Correction tab.

Practice Exam

Try out these practice questions to get a feel for the types of questions on the ACE exam. Please note that your performance here does not indicate how you will do on the actual exam. To fully prepare for the exam, closely review the topic areas and objectives in this Exam Bulletin.

Describe the benefits of working with the Lightroom catalog model.

You have a Smart Collection of portfolio images on your laptop. How can you generate a new catalog from the Smart Collection and save it on a portable hard drive?

- A. Open a second catalog, drag and drop the Smart Collection into the new Collection panel. Choose > File > Export as Catalog.
- B. Select the catalog in the Library module, choose Library > Refine Photos, then export the photos onto the portable hard drive.
- C. In the Library module, select the Smart Collection, choose File > Export as Catalog. Make certain that Export negative files is selected.
- D. In the Library module, choose the catalog; then, choose File > Export to open the Export dialog box. Navigate to your portable hard drive and click Export.

Correct answer: C

Describe the role of templates and presets in Lightroom

You are importing images into a Lightroom catalog. You would like to apply custom information that describes the images in this shoot, including a caption and the creator's contact information. You will use this information multiple times. How should you save this information?

- A. as a metadata preset
- B. as a filename preset
- C. as a text preset
- D. as a develop preset

Correct answer: A

Describe how to manage a multi-machine workflow

You are ready to transfer some images from your laptop to your studio computer. You have selected the folder of images you want to transfer and selected Export as Catalog. You want to include the original images in the Export. What should you do?

- A. turn on Export negative files
- B. turn off Export negative files
- C. turn on Include available previews
- D. turn off Include available previews

Correct answer: A

Import assets from a card.

You are importing a Raw image from a memory card into Lightroom. You have selected the option to Copy photos as Digital Negative (DNG) and add to catalog. What will you see in the folder of your local hard drive?

- A. the original RAW file and a DNG file
- B. a JPEG file and a DNG file
- C. the original RAW file only
- D. a DNG file only

Correct answer: D

Describe the relationship between the Lightroom catalog, folders on disk, and the files referenced in a catalog

You have imported a color image from your internal hard drive, then made a Virtual Copy and converted that copy into black and white. What is the state of the original image on your internal hard drive?

- A. The original image has been converted into black and white.
- B. The original image remains unchanged.
- C. There are now two copies of the original image on the hard drive.
- D. The original remains unchanged, and there is an additional black and white duplicate.

Correct answer: B

Explain how to apply and modify a graduated filter adjustment

How do you delete a graduated filter adjustment?

- A. Press H
- B. Press O
- C. Select the pin and press Delete
- D. Drag the pin off of the image

Correct answer: C

Explain how Lightroom and Photoshop share develop settings and other metadata.

When you license an image to a client, you want the file to contain your copyright information, but NOT show the Lightroom settings you used to create a unique look. How do you export the image so that your copyright is included, but Lightroom adjustments are NOT included in the file metadata?

- A. Edit the image in Photoshop and save as a new file.
- B. Metadata must be stripped out with third party software.
- C. Select Minimize Embedded Metadata from the Metadata section of the Export dialog box.
- D. By default, metadata about minor adjustments is NOT embedded when saving from Photoshop.

Correct answer: C