



CERTIFIED EXPERT

Macromedia Flash® Professional 8

EXAM PREPARATION GUIDE



EXAM PREPARATION GUIDE

Macromedia Flash® Professional 8 Exam

This guide provides all the information you need to get started in preparing for Adobe Certified Expert (ACE) and recertification exams. Passing ACE and recertification exams demonstrates your proficiency with Adobe software products and allows you to promote your expertise with customers and employers. As an ACE, you can stand out from your competitors and be noticed.

ACE Frequently Asked Questions

What is an ACE? What are the benefits of being certified? What are the exams like? Get all your ACE questions answered in a brief, to-the-point FAQ.

Four-Step Check List

Learn about the process for getting certified.

Step 1: Choose your certification level.

Step 2: Register for your exam(s).

Step 3: Prepare for and take your exam(s).

Step 4: Read the ACE Agreement and join the Adobe Certified community.

Exam Topic Areas and Objectives

Review the test content—topic areas and objectives—for each product exam. The topic lists will help direct your studies, so please review correctly.

Practice Exams

Review sample questions to get an idea of the types of questions that will be on the exam. *Note: Though helpful, these practice exams are not necessarily representative of the difficulty of the questions that you will encounter on the actual exam.*



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FREQUENTLY ASKED QUESTIONS

Q. What is an Adobe Certified Expert (ACE)?

A. An Adobe Certified Expert (ACE) has earned a certification created specifically for graphic designers, Web designers, video professionals, system integrators, value-added resellers, developers, or business professionals seeking recognition for their expertise with Adobe products. By passing one or more ACE exams, you become eligible to promote yourself to prospective clients as a highly skilled, expert-level user of Adobe software.

Q. What is the main benefit of passing ACE exams and becoming Adobe certified?

A. Adobe certification is an industry standard in excellence that can be used to demonstrate your product knowledge and expertise, and also serves as a catalyst when finding a job or seeking a promotion. The Adobe Certified Expert (ACE) and Adobe Certified Instructor (ACI) logos and credentials have been created for self-promotional use by individuals who have met all requirements of the Adobe Certified Expert or Adobe Certified Instructor programs. Those who have passed the tests may place certification logos on business cards, resumés, Web sites, and other promotional materials.

Q. What are ACE Specialist and ACE Master?

A. There are three levels of Adobe certification.

1. Single product certification: Recognizes your proficiency in a single Adobe product. To qualify as an ACE, you must pass one product-specific exam. Example: ACE, Adobe InDesign CS2
2. Specialist certification: Recognizes your proficiency in a specific medium: Print, Web or Video. To become certified as a Specialist, you must pass the exams on the required products listed below. Example: ACE Print Specialist (with passing marks on the tests for Adobe InDesign, Adobe Acrobat, and either Adobe Photoshop or Adobe Illustrator)

Specialists must pass all required (R) exams and any one elective (E) within any given certification track:

	Print Specialist	Web Specialist	Video Specialist
Adobe InDesign	R	—	—
Adobe GoLive	—	R	—
Adobe Acrobat*	R	E	—
Adobe Photoshop	E	R	R
Adobe Illustrator	E	E	—
Adobe Premiere	—	—	R
Adobe After Effects	—	—	R

Note: Exam requirements are subject to change.

*Adobe Acrobat 7.0 Professional Print Production exam only.

FREQUENTLY ASKED QUESTIONS

3. Master certification: Recognizes your skills in terms of how they align with the Adobe product suites. To become certified as a Master, you must pass the exam for each of the products in the suite. Example: ACE, Creative Suite Master (with passing marks on the tests for Adobe Acrobat, Adobe GoLive, Adobe Illustrator, Adobe InDesign, and Adobe Photoshop)

Q. What is an Adobe Certified Instructor (ACI)?

- A.** An Adobe Certified Instructor (ACI) is an ACE who provides instruction on Adobe products. ACIs must have an instructor qualification (a teaching credential, passed the CompTIA CTT+ (<http://www.comptia.org/certification/ctt/>) or equivalent), in addition to passing one or more ACE exams. For more information, visit the ACI home page, <http://www.adobe.com/support/certification/aci.html>

Q. How do I prepare for an ACE Exam?

- A.** The keys to preparing for an ACE exam are experience with the product and studying this Exam Preparation Guide (<http://partners.adobe.com/public/ace/main.html>). To access online training, user guides, and many other study materials, visit Adobe's training resources page (<http://www.adobe.com/support/training.html>). The following resources may also help you prepare for your ACE exam:

- Adobe product user guides
- Adobe Press books
- Adobe Authorized Training Centers (find the AATC nearest you through the Adobe Partner Finder online at: http://partners.adobe.com/asn/partnerfinder/search_training.jsp)
- Adobe online training at www.adobe.elementk.com
- Tutorials and materials from Total Training, at www.totaltraining.com
- Other training resources online at www.adobe.com/support/training.html

Q. How do I get training?

- A.** Once you know what product you want to get certified in, use the Adobe Partner Finder (<http://partners.adobe.com/asn/partnerfinder/trainingprovider/index.jsp>) database to locate an Adobe Certified Instructor or an Adobe Authorized Training Center in your area that teaches a class on the Adobe product you want to learn. Contact them directly for more information about their classes and registration details.

Q. What are the benefits to becoming an ACE?

- A.** As an individual with an ACE, you can:
- Differentiate yourself from competitors
 - Get your resumé noticed
 - Attract and win new business
 - Gain recognition from your employer
 - Get the inside track on Adobe's latest offerings
 - Leverage the power of the Adobe brand and resources

If you are an employer, use ACE as a benchmark so you can:

- Find the right person for the job
- Quickly assess candidate skill level
- Invest in your most promising employees
- Increase productivity and efficiency

FREQUENTLY ASKED QUESTIONS

Q. What type of exam are the ACE exams?

A. Adobe ACE exams (which are administered by Pearson VUE and Thomson Prometric, independent third-party testing companies) are computer-delivered, closed-book tests consisting of 60 to 90 multiple-choice questions. Each exam takes approximately one to two hours to complete, and results are given to you at the testing center immediately after you complete the test.

Q. What type of exam are the recertification exams?

A. Adobe recertification exams are Web administered exams that are available to current ACEs only. The exams are delivered to your desktop via the Web. The tests consist of 30-60 multiple choice questions focusing exclusively on new product features. Each exam takes approximately one half to one hour to complete. Results are revealed immediately after you finish.

Q. How do I register for an ACE exam?

A. Contact Pearson VUE or Thomson Prometric by phone, on the Web, or in-person:

	Pearson VUE	Thomson Prometric
Register online	www.pearsonvue.com	www.2test.com
Register in-person	Find a location online at www.pearsonvue.com	Find a location online at www.2test.com

Q. What is the fee for the ACE exam?

A. Each exam is US\$150 or local currency equivalent.

Q. What is the fee for the recertification exam?

A. The fee for Web administered ACE recertification exams is US\$50 or local currency equivalent.

Q. Soon after I passed an ACE exam, the exam was published for a new product version. Do I have to successfully complete the new exam within 90 days?

A. You may continue to use the ACE logo and materials in accordance with the Adobe Certified Program Guidelines for Logos and Credentials. When the ACE and recertification exams are published for the next version of the product, you must successfully complete that exam within 90 days to keep your ACE status current and continue using the ACE logo and materials.

Q. What can I expect from Adobe if I pass the ACE exam?

A. As soon as you pass the exam, your name and exam results are given to us by Pearson VUE or Thomson Prometric, our worldwide test administrators. Your exam data is then entered into our database. You will then be sent an ACE Welcome Kit and access to the ACE logo. You are also placed on our certification mailing list to receive special Adobe announcements and information about promotions and events that take place throughout the year.

Q. How long does it take to receive my Welcome Kit?

A. You can expect your Welcome Kit to arrive four to six weeks after we receive your exam results.



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FOUR-STEP CHECK LIST

STEP 1: Choose your certification level

There are three levels of certification to become an Adobe® Certified Expert. Choose the one that's right for you.

- 1. Single product certification: Recognizes your proficiency in a single Adobe product. To qualify as an ACE, you must pass one product-specific exam.**

Example: ACE, Adobe InDesign CS

- 2. Specialist certification: Recognizes your proficiency in a specific medium: print, Web, or video. To become certified as a Specialist, you must pass the exams on the required products listed below.**

Example: ACE Print Specialist (with passing marks on the tests for Adobe InDesign, Adobe Acrobat, and either Adobe Photoshop or Adobe Illustrator)

- 3. Master certification: Recognizes your skills in terms of how they align with the Adobe product suites. To become certified as a Master, you must pass the exam for each of the products in the suite.**

Example: ACE, Creative Suite Master (with passing marks on the tests for Adobe Acrobat, Adobe GoLive, Adobe Illustrator, Adobe InDesign, and Adobe Photoshop)

Specialists must pass all required (R) exams and any one elective (E) within any given certification track:

	Print Specialist	Web Specialist	Video Specialist
Adobe InDesign	R	—	—
Adobe GoLive	—	R	—
Adobe Acrobat*	R	E	—
Adobe Photoshop	E	R	R
Adobe Illustrator	E	E	—
Adobe Premiere	—	—	R
Adobe After Effects	—	—	R

Note: Exam requirements are subject to change.

*Adobe Acrobat 7.0 Professional Print Production exam only.

STEP 2: Register for your exam(s)

Adobe ACE exams are administered by Pearson VUE and Thomson Prometric, independent third-party testing companies. The tests are offered at more than five thousand authorized testing centers in many countries.

To register for your ACE exam(s), contact Pearson VUE or Thomson Prometric by phone, on the Web, or in person. Please note, all recertification Web based exams are delivered through Thomson Prometric only.

	Pearson VUE	Thomson Prometric
Register online	www.pearsonvue.com	www.2test.com
Register in-person	Find a location online at www.pearsonvue.com	Find a location online at www.2test.com

The ACE exam fee is US\$150 worldwide. The recertification exam fee is US\$50.



FOUR-STEP CHECK LIST

STEP 3: Prepare for and take your exam(s)

The keys to preparing for an ACE exam are experience with the product and studying using the Exam Prep Guide. To access online training, user guides, and many other study materials, visit Adobe's training resources page.

The following resources may also help you prepare for your ACE exam:

- Adobe product user guides
- Adobe Press books
- Adobe Authorized Training Centers (find the AATC nearest you through the online Adobe Partner Finder)
- Adobe online training from Element K (<http://adobe.elementk.com>)
- Tutorials and materials from Total Training (<http://www.totaltraining.com>)
- Other online training resources

ACE exams are computer-delivered, closed-book tests consisting of 60 to 90 multiple-choice questions. Each exam takes one to two hours to complete, and results are given to you at the testing center immediately after you finish.

Adobe recertification exams are Web administered exams that are available to current ACEs only. The exams are delivered to your desktop via the Web. The tests consist of 30-60 multiple choice questions. Each exam takes approximately 30 to 60 minutes to complete. Results are revealed immediately online after you finish.

STEP 4: Sign the ACE Agreement and join the Adobe Certified community

Review the ACE Agreement prior to taking the exam. You will be asked to agree to the ACE terms and conditions at the time of the exam.

Once you are ACE certified, visit the Adobe Certified community where you can:

- Verify exam results
- Get a copy of the ACE Agreement
- Download your Adobe Certified logo
- Find out about recertification
- Connect with other Adobe certificants
- Update your profile

Note: Information about the Adobe Certified Community is also printed on your score report.

Recertify when necessary

Once obtained, your ACE 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 the recertification exam.

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ACE EXAM TOPIC AREAS AND OBJECTIVES

ACE Exam Content: Topic Areas and Objectives

Following is a detailed outline of the information covered on the ACE Exam.

1. Planning and Design of Flash Applications

- Identify and evaluate requirements of project architecture, including interfaces, object oriented programming and structure of Flash movies.
- Identify basic requirements in page and interface layout.
- Recognize important target audience considerations in usability and accessibility for implementing a Flash-designed solution.
- Recognize effective visual design when building Flash applications using bitmap and vector images.
- Recognize effective visual design when using text to build Flash applications.
- Recognize effective use and creation of symbols and buttons when designing a Flash application.

2. Creating Flash 8 Applications

- Recognize effective use of ActionScript for creating interactivity when building Flash applications.
- Recognize and apply effective animation and media design when building Flash applications.

3. Integration, Testing and Deployment

- Recognize effective publishing and output design approaches and their use when testing and debugging Flash applications.
- Recognize effective optimization considerations when testing and debugging Flash applications.

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PRACTICE EXAM

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

1. Recognize effective visual design when building Flash applications using bitmap and vector images.

To what does 'object drawing model' refer?

- A. drawing of regular shaped objects only
- B. drawing of irregular shaped objects only
- C. drawing of objects within symbol editing mode
- D. drawing of objects that merge with other shapes
- E. drawing of objects that cannot merge with other shapes

Correct Answer: E

2. Recognize effective visual design when using text to build Flash applications.

Which two statements about device fonts are true? (Choose two)

- A. rotated text set in a device font can be rendered
- B. device fonts are NOT embedded in the Flash SWF file
- C. device fonts cannot be masked by using a mask layer on the Stage
- D. device fonts can only be used with static horizontal text and input text
- E. using device fonts results in a somewhat smaller SWF file than all of the other font options

Correct Answer: B, E

3. Recognize effective visual design when using text to build Flash applications.

Given the following code snippets:

```
thisClip = this.createEmptyMovieClip("orig", this.getNextHighestDepth());
thisClip.opaqueBackground = 0x0000FF;
thisClip.lineTo(100,100);
```

```
var myBit:BitmapData = new BitmapData(thisClip._width,
thisClip._height);
```

```
var anotherClip:MovieClip = this.createEmptyMovieClip("cop",
this.getNextHighestDepth());
anotherClip.attachBitmap(myBit, this.getNextHighestDepth());
```

Which code should be added to create a second blue square to the right of the first?

- A. anotherClip._x = 300;

PRACTICE EXAM

- ```
myBit.draw(thisClip);
```
- B. `anotherClip.lineTo(300,100);`  
`myBit.draw(thisClip);`
- C. `anotherClip.moveTo(anotherClip._x+300,anotherClip._y)`  
`myBit.draw(thisClip)`
- D. `anotherClip._x = 300;`  
`myBit.duplicateMovieClip("anotherClip", "blueSQ",`  
`getNextHighestDepth());`

Correct Answer: A

**4. Recognize effective use of ActionScript for creating interactivity when building Flash applications.**

Which two TextField events can be captured to trigger scripts to run? (Choose two)

- A. `onChanged`
- B. `onScrolled`
- C. `onRelease`
- D. `onScroller`
- E. `onClick`

Correct Answer: A, D

**5. Recognize effective use of ActionScript for creating interactivity when building Flash applications.**

Which two sets the x position of the instance `my_mc` to that of the mouse cursor? (Choose two)

- A. `my_mc._x=mouse._x;`
- B. `my_mc._xmouse=this._x;`
- C. `_root._xmouse=my_mc._x;`
- D. `my_mc._x=_root._xmouse;`
- E. `my_mc._x==_root._xmouse;`
- F. `my_mc._x=Mouse.addListener(x);`
- G. `setProperty(my_mc,_x,_root._xmouse);`

Correct Answer: D, G

**6. Recognize effective use of ActionScript for creating interactivity when building Flash applications.**

What is the purpose of the `break` statement?

- A. to cause a function to stop executing immediately and not run any other lines of code in a function
- B. to cause a conditional loop to stop executing immediately and exit the loop without running any other lines of code in the loop
- C. to stop executing the code in a frame immediately and go to the next frame without executing any other lines of code in the frame
- D. to cause a conditional loop to stop executing immediately, return to the top of the conditional loop and continue with the next pass of the loop

Correct Answer: B

## PRACTICE EXAM

**7. Recognize effective use of ActionScript for creating interactivity when building Flash applications.**

What is the output of the following code?

```
var fruits:Array = new Array("apple", "strawberry",
"orange");
fruits.unshift("orange");
trace(fruits);
```

- A. apple,strawberry
- B. apple,strawberry,orange
- C. apple,strawberry,orange,orange
- D. orange,apple,strawberry,orange

Correct Answer: D

**8. Recognize effective use of ActionScript for creating interactivity when building Flash applications.**

What appears in the Output window after executing this ActionScript on the first frame of a movie?

```
myVar = 20;
_global.myVar = 10;
trace(myVar);
```

- A. 10
- B. 20
- C. null
- D. error message

Correct Answer: B

**9. Recognize and apply effective animation and media design when building Flash applications.**

Which ActionScript classes are used to play FLV formatted video?

- A. FlvConnection and FlvStream
- B. NetConnection and NetStream
- C. ProgConnection and ProgStream
- D. NetConnection and FlvConnection

Correct Answer: B

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