



Logic Pro 9 Level One

Exam Preparation Guide



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About this Guide

This guide provides all the information that you need to prepare for the Logic Pro 9 exam to earn Apple Certified Pro Level One certification. From this guide you can:

- Learn about Apple Certification.
- Find out how to take the exam.
- Locate resources to help you prepare for the exam.
- Review the range of objectives that the exam may cover.
- Get a feel for the type of questions that appear on the exam.

Becoming an Apple Certified Pro

The Apple Training & Certification program is designed to keep you at the forefront of Apple technology. Apple Certification creates a benchmark to demonstrate your proficiency in specific Apple technologies and gives you a competitive edge in today's evolving job market.

Apple offers two levels of certification on Logic Pro 9: **Apple Certified Pro - Level One**, and **Apple Certified Pro - Level Two**. Certification exams do not require attendance at a class. Students who prefer to learn on their own or who already have the necessary skill set in may take an exam for a fee.

An Apple Certified Pro is a user who has reached the highest skill level in the use and operation of Apple's pro applications as attested to by Apple. Students earn certification by passing the online certification exam administered only at [Apple Authorized Training Centers](#) (AATCs). Apple Certified Pro status is appropriate for industry professionals.

Apple Certified Pro - Level One attests to basic operational knowledge of a specific application. Level One exams are administered at the end of specific courses, or you may take the exam at an AATC for a fee.

Apple Certified Pro - Level Two attests to a deeper understanding of the application as well as mastery of advanced features. You can take Level Two exams only after earning Level One certification.

Many Apple Certification exams are available in multiple languages. Even AATCs that do not offer localized courses can still offer localized exams. For details, visit training.apple.com/certification/localized. What are the benefits of being an Apple Certified Pro?

Beside differentiating you as a skilled user of a specific Apple application, becoming an Apple Certified Pro allows you to leverage the power of the Apple brand. When you pass an Apple Certification exam, you receive an email with a PDF copy of your Apple certificate, along with instructions on how to order a printed and/or a printed and framed certificate. The email includes LinkedIn, Facebook, and Twitter icons to make it easy for you to share your certification news with your networks on these sites.



You also receive a login for the [Apple Certification Records System](#), where you can:

- Update your profile information and opt in to display your Apple Certification(s) on the [Apple Certified Professionals Registry](#).
- Review your certification progress.
- Download your certification logo(s) to use on business cards, resumes, websites, and more.
- Provide access to employers to verify your certifications.



Exam Details

The Logic Pro 9 Level One exam is a computer-based test offered at Apple Authorized Training Centers (AATCs). To find the closest AATC, please visit training.apple.com/locations.

Many AATCs schedule Certification Exam Sessions at training.apple.com/schedule. If you don't see a session scheduled at your nearest AATC, you can contact the AATC and they will often schedule a session. **Please note that all AATCs offer all Mac OS X and Pro Apps exams, even if they don't offer the corresponding course.**

The Logic Pro 9 Level One exam details are as follows:

- Exam number: 9L0-837
- Number of test questions: approximately 63 technical, five demographic (unscored)
- The exam uses a random pool of multiple-choice, fill-in-the-blank and interactive-media questions.
- Passing score: 80% (scores are *not* rounded; you must earn a score of 80% or higher to pass the exam)
- Details on exam scoring appear at training.apple.com/certification/faq
- Exam duration: One hour thirty minutes
- This exam is also available in other languages. For details, please visit training.apple.com/certification/localized.

The exam timer does not start until you view the first technical question. You may not access any resources or references during the exam.

Recommended Exam Preparation

We recommend the following exam preparation strategies:

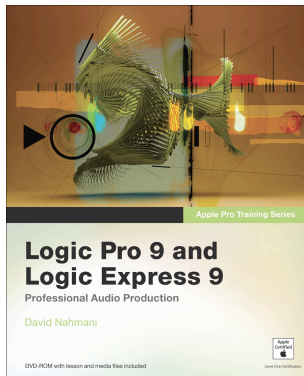
- Gain experience with the application.
- Learn from experts: [Logic 101: Introduction to Logic Pro](#).
- Study the *Apple Pro Training Series* book "Logic Pro 9 and Logic Express 9" by David Nahmani (ISBN 0-321-63680-5).
- Review the optional study materials.
- Review the objectives and sample questions in this guide.

Gain Experience with the Application

Nothing can substitute for time spent learning the technology first hand. After you read the book and/or take the class, spend time increasing your familiarity with the software on your own to ensure your success on the certification exam.

Learn from Experts

Apple Authorized Training Centers (AATCs) offer classes where you can learn hands-on with the technology and benefit from the expertise of Apple Certified Trainers and your peers. Visit the [Apple Training & Certification](#) website to find course offerings at nearby AATCs.



Study the Apple Pro Training Series Book

Apple Pro Training Series books are the basis for the Certification exams. The book for this exam is *Apple Pro Training Series* book "Logic Pro 9 and Logic Express 9" by David Nahmani (ISBN 0-321-63680-5). You can purchase the book at [peachpit.com](#) ([click here](#) for a 30% discount code). [Creative Edge](#), an on-demand digital library, offers subscription access to the Apple Pro Training Series, as well as thousands of other reference videos and books. You can also purchase an ebook version from the iBookstore. This book is also available in other languages. [Click here](#) for details.

Review the Optional Study Materials

- Review the appropriate sections of the Logic Pro User Manuals at: [documentation.apple.com](#). You can also launch the Logic Pro documentation by choosing **Help > Logic Pro User Manual** when Logic Pro is launched. Information on new features is available by choosing **Help > New Features** when Logic Pro is launched.
- Many online resources allow you to ask questions and learn tips. To access white papers, discussion forums, and learn about the many other online materials, visit [www.apple.com/logicpro/resources/](#).
- For information on the Apple Pro Training Program, visit [training.apple.com/](#).
- To provide comments and feedback to Apple about Logic Pro, visit [www.apple.com/feedback/logicpro.html](#).
- Read the late breaking news at [www.apple.com/support/manuals/](#).
- Many third-party manufacturers create reference, troubleshooting and tutorial DVDs for the novice to power user. A quick Internet search will provide you with dozens of options.
- If you have any questions, you can post them to the Logic Pro [Discussion Forum](#), which is hosted by Apple.

Lesson One objectives

Upon completion of Lesson One, “Make Music with Logic Now!” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Browse, preview, and use loops
- Edit regions and create an arrangement
- Navigate and zoom in the Arrange area
- Use effect and software instrument plug-ins
- Mix down and export to MP3

Lesson One review questions

After completing Lesson One, you should be able to answer the following questions.

1. How many areas are in the Arrange window, and what are their names?
2. When the same key command can be used in different areas, how do you know which area will respond to key commands?
3. What are the two ways to adjust a setting (such as the tempo) in Logic?
4. Which kinds of regions go on software instrument tracks and audio tracks?
5. What units displayed in the help tag indicate a length or a position in the project?
6. How do you move or copy a region in the Arrange area?
7. In what order are channel strips displayed in the Mixer?
8. What is a channel strip setting?
9. What are the steps to take to export your mix?

Answers

1. There are six areas in the Arrange window: Arrange area, editing area, Media or Lists area, Inspector, Toolbar, and Transport bar.
2. The area that has key focus, indicated by a white frame.
3. Drag a value up and down to increase or decrease it, or double-click to access a data field in which you can directly enter a new value.
4. MIDI regions go on software instrument tracks; audio regions go on audio tracks.
5. Bars, beats, divisions, and ticks.
6. Drag a region to move it; Option-drag a region to copy it.

7. Channel strips are displayed left to right in the same order in which they are displayed top to bottom in the Arrange area.
8. The collection of all the plug-ins on a channel strip, including each plug-in's settings.
9. Adjust the project length, deselect all regions and turn off Cycle mode, choose File > Bounce, choose a name and a destination and click Bounce.

Lesson Two objectives

Upon completion of Lesson Two, "Recording Audio" in "Logic Pro 9 and Logic Express 9" you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Choose digital audio settings
- Record single and multitrack audio
- Record additional takes
- Record in Cycle mode
- Punch record both on the fly and automatically
- Adjust count-in, metronome, and other settings

Lesson Two review questions

After completing Lesson Two, you should be able to answer the following questions.

1. Which settings affect the quality of a digital audio recording?
2. Where can you adjust those settings?
3. How do you record on one or several tracks?
4. How do you record additional audio takes?
5. What happens when you record in Cycle mode?
6. How do you punch on the fly?
7. How do you use the Autopunch function?
8. Where do you adjust the I/O buffer size?
9. How do you choose the best I/O buffer size?
10. Where do you set the recording file type?
11. Where do you adjust the count-in?
12. Where do you adjust the metronome settings?
13. How can you quickly access recording and metronome settings?
14. How can you hide tracks?

Answers

1. Sample rate and bit depth.
2. You adjust the sample rate in File > Project Settings > Audio. Adjust the bit depth in the Devices tab of the Audio Preferences.
3. Record-enable the desired track(s) and click the Record button in the Transport bar.
4. Record over an existing audio region.
5. A new take is recorded for each pass of the cycle, and all the takes are packed into a take folder.
6. Make sure Punch On the Fly is enabled (choose Options > Audio > Punch On the Fly to toggle it on and off), start playback, and press the Record Toggle key command (Shift-*) to punch in and out.
7. In the Transport bar, click the Autopunch Mode button. Adjust the Autopunch range in the Bar ruler, and click the Record button.
8. In the Devices tab of Audio Preferences.
9. Choose a lower I/O buffer size when recording (for less latency), and a higher I/O buffer size when mixing (for more CPU processing power).
10. In the General tab of Audio Preferences.
11. In the Toolbar, click the Settings button, and choose Recording.
12. In the Toolbar, click the Settings button, and choose Metronome.
13. Hold down (or Control-click) the Record or Metronome buttons in the Transport bar.
14. At the top left of the Arrange area, click the Hide button. Click individual Hide buttons on track headers, and click the main Hide button again.

Lesson Three objectives

Upon completion of Lesson Three, “Editing Audio” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Create a composite take from multiple takes
- Assign Left-click and Command-click tools
- Edit regions in the Arrange area
- Apply fades and crossfades

- Import audio files
- Quantize audio regions
- Move individual notes inside an audio region using the Flex tool
- Edit audio destructively in the Sample Editor
- Position audio regions in the Arrange area

Lesson Three review questions

After completing Lesson Three, you should be able to answer the following questions.

1. How do you open a take folder?
2. How do you preview the takes?
3. How do you comp takes?
4. How can you see the result of your comp as regions?
5. How can you assign the Left-click tool?
6. How can you assign the Command-click tool?
7. How do you add a fade-in or fade-out to a region?
8. How do you crossfade between two regions?
9. How can you import an audio file into your project?
10. How can you select a portion of an audio region?
11. When you choose Edit > Select Unused in the Audio Bin, which files are selected?
12. What do you need to do before you can quantize an audio region?
13. Which tool allows you to move an individual note inside an audio region, without altering the region?
14. What kind of audio editing can you do in the Sample Editor?
15. What is the anchor?

Answers

1. Double-click a take folder to open it.
2. Click the takes you want to preview. The highlighted take is the take playing; the others are muted.
3. Open the take folder, and drag over each take to highlight the desired sections. The take folder assembles a comp comprising all the highlighted sections.
4. From the take folder menu, choose Flatten.
5. From the Left-click Tool menu, choose the desired tool, or press Esc and choose the desired tool.

6. In the Command-click Tool menu, choose the desired tool, or press Esc and Command-click the desired tool.
7. Drag the Crossfade tool over the boundaries of a region (or Shift-Control-drag the Pointer tool).
8. Drag the Crossfade tool over the junction of the regions (or Shift-Control-drag the Pointer tool).
9. You can locate and preview it in the File Browser, then drag it to the Arrange area.
10. Use the Marquee tool.
11. Choosing Edit > Select Unused selects all the audio files and regions that are not currently used in the Arrange area.
12. You need to first select a Flex mode in the Track Parameter box.
13. The Flex tool.
14. Destructive audio editing.
15. The anchor is a point in an audio region used to position the region to the grid in the Arrange area.

Lesson Four objectives

Upon completion of Lesson Four, “Recording MIDI” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Record MIDI performances
- Quantize MIDI recordings
- Merge a MIDI recording with an existing MIDI region
- Record MIDI in take folders
- Punch record a MIDI recording
- Capture a performance as a recording
- Record MIDI using Step Input mode
- Filter incoming MIDI events

Lesson Four review questions

After completing Lesson Four, you should be able to answer the following questions.

1. How does Logic route incoming MIDI events?
2. How can you time-correct a MIDI region?
3. How do you choose the default quantize settings for new MIDI recordings?
4. How do you record MIDI takes?

5. What do you need to do before you can punch in on a MIDI track to replace a portion of a MIDI region?
6. How do you turn on Step Input mode?
7. When recording in Step Input mode, identify two ways you can adjust the step length.

Answers

1. All incoming MIDI events are routed to the record-enabled track(s).
2. In the Inspector's Region Parameter box, choose a grid resolution value from the Quantize menu. The MIDI notes in the region will snap to the nearest position on the chosen grid.
3. Deselect all regions to choose the MIDI Thru parameters in the Region Parameter box.
4. Open the Recording project settings and choose Overlapping Recordings > Create take folders, and then record on top of an existing record, or record in Cycle mode.
5. You need to turn on the Replace mode.
6. Click the MIDI In button in the Piano Roll Editor, Score Editor, or Event List.
7. In the Transport bar, adjust the division setting; or open the Step Input Keyboard and use the note-length buttons.

Lesson Five objectives

Upon completion of Lesson Five, "Programming and Editing MIDI" in "Logic Pro 9 and Logic Express 9," you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Import MIDI files into a project
- Insert and edit MIDI notes in the Piano Roll and Score editors
- Quantize and mute individual notes
- Edit note velocity and pitch using a MIDI keyboard
- Draw and edit MIDI continuous controller automation using Hyper Draw and the Hyper Editor
- Clean up MIDI regions in the Event List

Lesson Five review questions

After completing Lesson Five, you should be able to answer the following questions.

1. In the Piano Roll Editor, what can you do with the Pencil tool?
2. What does the MIDI Out button do?

3. Can you quantize individual notes? How?
4. How can you edit notes with a MIDI keyboard?
5. How can you edit MIDI continuous controller events in the Piano Roll Editor or Score Editor?
6. How do you insert nodes in Hyper Draw?
7. How do you curve a line in Hyper Draw?
8. How do you use the Line tool in Hyper Draw (when editing note velocities) or in the Hyper Editor?
9. How do you select automation in Hyper Draw?
10. How do you change the grid resolution of an event definition?
11. How do you draw automation in the Hyper Editor?
12. How do you hide a type of event in the Event List?

Answers

1. You can insert, resize, delete, move, and copy notes.
2. When the MIDI Out button is on, MIDI notes are triggered as you edit them.
3. Yes, you click the notes with the Quantize tool and choose a quantize setting from the pop-up menu.
4. Double-click the MIDI In button at the top of the MIDI editor, select the note you want to edit, and play a note on your MIDI keyboard.
5. Click the Hyper Draw button at the lower left of the editor.
6. Click in the Hyper Draw area to insert a node. You can also hold down the mouse button so that a help tag appears, and then drag the node to the desired position while looking at the help tag.
7. Shift-Control-drag the line.
8. Drag to find your Start Line position, release the mouse button, find your End Line position, and click to end the line.
9. Shift-drag around the desired nodes.
10. In the Inspector, in the Event Definition Parameter box, adjust the Grid parameter.
11. With the Pencil or Line tool.
12. When the Filter button is on, click an event type button to filter the corresponding events.

Lesson Six objectives

Upon completion of Lesson Six, “Programming Drums” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Program a drum pattern in Ultrabeat
- Add rhythmic accents
- Create drum rolls
- Convert an audio drum loop to a sampler instrument

Lesson Six review questions

After completing Lesson Six, you should be able to answer the following questions.

1. Name the three main sections of the Ultrabeat interface.
2. In Ultrabeat, what sounds are triggered by which MIDI notes?
3. How do you insert a note on every downbeat?
4. How can you add accents to a pattern?
5. How can you add accents at different positions for different drum sounds?
6. In Ultrabeat, how can you randomize a sound’s note velocities?
7. How can you view an Ultrabeat pattern as a MIDI region in the Arrange area?
8. In the Piano Roll Editor, how can you deselect a single note from a multiple note selection?
9. What editor is the best choice for creating a snare roll?
10. How do you create a custom hyper set containing event definitions only for the existing notes in the region?
11. How do you convert an audio region into a sampler instrument?

Answers

1. The Assignment section, the Synthesizer section, and the step sequencer.
2. Notes C1 through B2 play the 24 drum sounds; C3 and above play the bass sound chromatically.
3. Control-click the full view grid, and choose Add Every Downbeat from the shortcut menu.
4. By selecting steps in the accent row.

5. You can't. Accent positions are the same for all sounds. You can turn the accents on and off for individual sounds using the accent switch.
6. Control-click the step sequencer, and from the shortcut menu, choose Alter Vel.
7. Drag the Pattern button to the Arrange area.
8. Shift-click the note you want to deselect.
9. The Hyper Editor.
10. Make sure that all notes are deselected inside the region, and from the Hyper Set menu, choose "Create Hyper Set for Current Events."
11. Select the audio region and choose Audio > Convert Regions to New Sampler Track.

Lesson Seven objectives

Upon completion of Lesson Seven, "Manipulating Tempo and Time Stretching" in "Logic Pro 9 and Logic Express 9," you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Match a project tempo to an audio file's tempo
- Use the Loop Browser
- Create Apple Loops
- Make an audio region follow the project tempo
- Insert tempo changes and tempo curves
- Time-stretch an audio region to match the project tempo
- Use Varispeed effects
- Apply Tape or Turntable speed-up and slowdown effects
- Use the Flex tool to stretch single notes on the waveform

Lesson Seven review questions

After completing Lesson Seven, you should be able to answer the following questions.

1. How can you change a project's key signature?
2. How do you match the project tempo to an audio file's tempo?
3. How do you make an audio region follow the project's tempo?
4. How do you insert tempo changes?
5. Which region types will always follow the project's tempo map?

6. How do you create an Apple Loops file from a region?
7. What are Apple Loops? Describe the difference between blue and green Apple Loops.
8. How do you apply speed fades on an audio region?

Answers

1. Open the global tracks, and double-click the key signature on the global Signature track. Choose a new key from the Key Signature window.
2. Select the region and choose Options > Tempo > "Adjust Tempo using Beat Detection."
3. In the Inspector's Track Parameter box, select a flex mode.
4. In the global Tempo track, double-click above or below the tempo line.
5. MIDI regions, Apple Loops, and audio regions with a flex mode selected.
6. Drag the region over the Loop Browser.
7. Apple Loops are AIFF or CAF audio files that automatically match the project's tempo and key. Unlike blue Apple Loops, green Apple Loops also contain the MIDI region and software instrument channel strips used to create them, and they can be used on software instrument tracks.
8. Create a fade-in or a fade-out, and in the region parameters, set the fade-in parameter to speed up, or the fade parameter to slow down.

Lesson Eight objectives

Upon completion of Lesson Eight, "Arranging and Preparing for the Mix" in "Logic Pro 9 and Logic Express 9," you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Experiment with the order of regions in Shuffle mode
- Pack regions into folders
- Cut and insert sections into a project
- Divide a region into multiple slices
- Clean up noisy recordings using Logic and Soundtrack Pro

Lesson Eight review questions

After completing Lesson Eight, you should be able to answer the following questions.

1. How do you use the Solo mode?
2. How can you swap the positions of regions?

3. How do you pack regions into a folder?
4. How do you open and close a folder?
5. How do you slice a region into regions of equal length?
6. How do you insert a new section into a project?
7. How do you skip a section when playing back a project?
8. How can you remove background noises on a track?

Answers

1. In the Transport bar, click the Solo button (or press S), and then select the region(s) you want to solo.
2. At the top right of the Arrange area, set the Drag menu to one of the shuffle modes, then drag a region over another one.
3. Select the regions to pack, and choose Region > Folder > Pack Folder (or press Command-Shift-F).
4. Double-click a folder to open it. Double-click the background of the Arrange area, or click the Hierarchy button, to close a folder.
5. Hold down Option as you cut the first slice with the Scissors tool.
6. Adjust the cycle area to identify the length and position of the section to insert, and from the Arrange area local menu, choose Edit > Cut/Insert Time > Insert Silence Between Locators.
7. Create a skip cycle area by dragging in the upper half of the Bar ruler from right to left.
8. You can use Strip Silence to remove all the portions of a region that fall below a specific level threshold. You can use the Denoiser plug-in to reduce the noise level of a track.

Lesson Nine objectives

Upon completion of Lesson Nine, "Mixing" in "Logic Pro 9 and Logic Express 9," you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Navigate the Mixer and use effect plug-ins
- Adjust volume levels and use groups
- Adjust pan positions
- Filter frequencies with the Channel EQ plug-in
- Process with aux sends and aux channel strips
- Add depth with delay and reverberation plug-ins

Lesson Nine review questions

After completing Lesson Nine, you should be able to answer the following questions.

1. Identify the four main instrument sound components that you can adjust to give each instrument its place in a mix.
2. For what purpose do you use an aux send?
3. How can you temporarily link the parameters of several channel strips?
4. How can you permanently link the parameters of several channel strips?
5. How can you adjust the level of an individual channel strip assigned to a group?
6. Where is an aux send positioned in the signal flow of a channel strip?
7. What does a compressor do?
8. What does a limiter do?
9. How can you choose which channel strip is displayed in the right Arrange channel strip?
10. How do you change the mono or stereo status of a channel strip?

Answers

1. Volume level, pan position, frequency spectrum, and depth.
2. You use an aux send to route some of the signal from a channel strip to an aux channel strip, usually to be processed by plug-ins.
3. Select multiple channel strips in the Mixer to temporarily link their parameters.
4. By using groups. Click the Group slot on a channel strip to choose a group to assign that channel strip to.
5. Choose Options > Group Clutch to toggle the groups on and off.
6. By default, aux sends are positioned after the volume fader but before the pan.
7. It attenuates the level of a signal after that signal goes over a certain threshold, giving the signal a more consistent level.
8. It works in a similar fashion to a compressor, but it makes sure that the signal is attenuated so it never goes over a certain output ceiling.
9. On the left Arrange channel strip, click any send slot or the output slot to display the corresponding channel strip on the right.

10. Click the format button below the meter.

Lesson Ten objectives

Upon completion of Lesson Ten, “Automating the Mix and Using Control Surfaces” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Edit automation offline
- Record live automation
- Record live automation using a control surface
- Export the final mix

Lesson Ten review questions

After completing Lesson Ten, you should be able to answer the following questions.

1. How can you view the automation track on the current track only?
2. Describe the steps needed to record live automation.
3. Compare the similarities and differences of the Touch and Latch modes.
4. When using Automation Quick Access, how many parameters can you control, and how many controller knobs can you use?

Answers

1. In the Toolbar, click the Auto Zoom button to automatically zoom in vertically on the selected track; then click the Automation button to display the selected track’s automation track.
2. Choose the desired automation mode (Touch, Latch, or Write); then start playback and adjust the desired parameters.
3. In both modes, recording automation begins when you first touch a controller slider or knob (or hold down the mouse button over a slider or knob on the interface). When you release the controller knob (or the mouse button), Touch mode returns the automation to the original parameter value or existing automation on the track, whereas Latch mode continues recording at the current parameter level.
4. You can use only one controller knob and control only one parameter at a time, but you can easily choose the desired parameter by displaying it on the selected automation track.

Lesson Eleven objectives

Upon completion of Lesson Eleven, “Troubleshooting and Optimization” in “Logic Pro 9 and Logic Express 9,” you should be able to complete the following tasks. Items from this lesson are included in the pool of exam questions, drawn randomly from the following objectives:

- Learn good backup practices
- Understand the principles of troubleshooting
- Learn basic troubleshooting steps

Lesson Eleven review questions

After completing Lesson Eleven, you should be able to answer the following questions.

1. When are automatic backups created, and where are they saved?
2. Describe an easy way to have Logic produce an audio signal in Logic when troubleshooting audio output.
3. When you are reaching the limits of your CPU, how can you quickly reduce the load on it?
4. How can you avoid reaching the limits of your hard disk’s bandwidth?
5. When a project file isn’t receiving incoming MIDI events, even though other project files are, what should you do?
6. How can you determine if your audio interface is causing a playback problem?

Answers

1. Each time you save a project file, Logic moves the previously saved project file into the Project File Backups folder inside the project folder.
2. Preview an Apple Loops file from the Loops Browser.
3. Freeze CPU-intensive tracks.
4. Unfreeze tracks, submix several tracks together, or load audio regions into RAM using Follow Tempo.
5. Open that project file’s Environment window and check for proper default Click & Ports layer cabling.
6. Bypass the external audio interface by playing a project through your Mac’s built-in audio interface. If the project plays properly, the problem probably lies in the interface.

Appendix A and B

“Logic Pro 9 and Logic Express 9” includes 11 lessons plus two appendices. However, only Lessons 1 through 11 are included on the end user exam. Please note that if you are an Apple Certified Trainer, all lessons are included on the trainer exam.

Taking the Logic Pro 9 certification exam

The Logic Pro 9 Level One certification exam must be taken at an Apple Authorized Training Center (AATC) in a proctored setting or at a Prometric Testing Center. To find the closest AATC, please visit training.apple.com/aatc. To find a Prometric Testing Center, visit www.prometric.com/apple.

Many AATCs schedule "Certification Exam Sessions" at training.apple.com/schedule. If you don't see a session scheduled, you can contact the AATC and they will often schedule one for you. Please note that all AATCS can offer all Mac OS X and Pro Apps exams, even if they don't offer the corresponding course.

Prometric Exam FAQs

Please visit training.apple.com/certification/faq for a list of Frequently Asked Questions. If you do not find the answer to your question, then [email us](mailto:apple-certification@prometric.com). Please allow at least two business days for a response.