Welcome to the computer-based exam tutorial for the API 510, 570 and 653 exams.

Welcome to the API 510 - Pressure Vessel Inspector Certification

Exam Structure

This exam contains **150 questions**, presented in random order. You will have **390 minutes** to answer all questions on this exam.

This exam is a two-part exam comprised of closed and open book sections. Following the closed-book section of the exam, there is a scheduled 45-minute break. The open-book section of the exam will start after the break. All code references for the open book portion will be provided on the screen.

Before you begin, it is strongly encouraged that you take a few minutes to review the tutorial before proceeding to the exam section. The tutorial provides an overview of the features available to you during the exam.

A calculator is available to you on the computer screen during the exam. This is an optional feature as you may use a handheld calculator that can be given to you by the proctors. If you prefer the handheld calculator, please request that now.

After completing and reviewing all questions within the closed-book section, you can navigate to the scheduled break by clicking the "Finish Section" button in the top right of the screen.

Once the "Finish Section" button is clicked, a sequence of pop-up windows will appear confirming that you want to finish the exam section. Once you confirm your decision to finish the section, you will progress to the scheduled break.

If you respond "No" to the pop-up you will return to the section. Please note that once you submit the section, you may not return at any point. Any unanswered questions will be marked as Incorrect.

Following your scheduled break, the open-book portion of the exam will begin. Should you choose to conclude your scheduled break early, you will be presented with a sequence of pop-ups to confirm your decision.
After completing and reviewing all questions within the open-book section, you can navigate to the general comment box by clicking the “Finish Section” button in the top right of the screen.

Once the “Finish Section” button is clicked, a sequence of pop-up windows will appear confirming that you want to finish the open-book section. Once you confirm your decision to finish this section, you will progress to the general comment box.

Click “No” to return to the exam questions. Please note that once you submit the open-book section, you may not return at any point. Any unanswered questions will be marked as incorrect.

To change the color scheme at any time, click on the “Gear” icon in the bottom-left corner of the screen.

To view this tutorial again at any time, click on the “Question Mark” icon at the bottom of the screen.

To begin the tutorial, click “Next” to continue.
Welcome to the Tutorial

This tutorial provides a series of screens that orient you to the computer testing environment. You will be instructed on how to use the mouse and the different parts of the screen.

Notice the timer at the top of the screen. A similar display will appear during the actual exam. To the left of the screen is a numbered list that shows you where you are in the series of examination questions (or in this case, screens of the tutorial). Other screen features are described later in the tutorial.

Click the 'Next' button to continue.
Using the Mouse

The mouse pointer moves when you move the mouse around on a surface. Although it can assume different shapes, the arrow shown above is most common. To point with the mouse, move the pointer until it rests on the desired object. To click on an object, point to it and then quickly press and release the left mouse button.

Click the 'Next' button to continue.
Navigating Through the Exam

Click the **Next** button displayed at the bottom of the screen to move to the next screen or question. Click the **Back** button to move to the previous screen or question.

In addition to the navigation buttons, you can use the numbered buttons displayed on the left side of the screen. Depending on the number of questions in the section, you may need to click on the down arrow to navigate to additional questions.

The numbered buttons change appearance to indicate different question states: Current, Attempted, Unattempted, and Flagged.

- The current question will be indicated by an arrow-shaped numbered button.
- For all attempted questions, the numbered button will appear darker in color.
- For all unattempted questions, the numbered button will remain the original color.
- Flagged questions will show a flag icon on the numbered button.

**Click the 'Next' button to continue.**
Using the Scroll Function

When a question does not fit on a single screen, the following warning will appear at the bottom of the screen.

To scroll through the screen contents, click and drag the scroll bar as necessary or use the scroll wheel on the mouse.

Click the 'Next' button to continue.
Time Remaining

The amount of time remaining is displayed at the top of the screen.

Each section of this examination is allocated a specific amount of time, including the Tutorial and Survey. There is also an overall amount of time provided for your full exam appointment. Clicking on the clock will switch between the amount of time remaining in the current section of the exam and the amount of overall time remaining for the full exam appointment.

The most important time display for you as a test taker is the "Section Time Remaining."

Note that, where applicable, an alert box will appear below the exam clock to signal when 30 minutes, 15 minutes, and 5 minutes remain in the current section.

Click the 'Next' button to continue.
Flagging Questions

You can flag a question as a reminder to go back and check your answer or attempt it later.

To flag a question, click the **Flag** button displayed at the bottom of the exam screen.

Any questions that are flagged for review will show a flag icon on the numbered button, as shown below. Click the **Flag** button again to remove the flag.

Click the 'Next' button to continue.
Answering Multiple-Choice Questions

This examination uses multiple-choice questions. This type of question has one correct answer.

To complete each multiple-choice question, click on the option that you believe to be the single best answer. Once selected, the option will appear darker in color. To change your response, click on a different option. If you would like to unselect a chosen option, click on it a second time.

Practice answering the multiple-choice question below. Once you have finished practicing, click the 'Next' button to continue.

Of the following biological levels of organization, which represents the smallest or lowest level?

A. organism
B. population
C. cell
D. ecosystem
Using the Calculator

A calculator is available for your use on every item in the exam. This calculator is similar to the calculator found in Microsoft Windows.

You can use the calculator to perform any of the standard operations for which you would normally use a handheld calculator. The calculator performs basic arithmetic, such as addition, subtraction, multiplication, and division.

Click the 'Next' button to continue.
**Highlighted Text**

During the examination, you will be able to highlight question text that you feel is important to refer back to as you progress through the exam. The highlight will remain present as you navigate through the exam, unless you select to remove it.

To highlight text, click and drag the mouse cursor over the desired text. Click the **Highlight** button, as shown in the image below, that appears after releasing the mouse button. To remove the highlight, click on any area of the highlighted text.

*How would you characterize the young Frederick Douglass?*

The highlight feature cannot be applied to text within the answer options.

**Click the 'Next' button to continue.**
Striking Out Options

During the examination, a Strikeout feature is available to help you visually eliminate possible options from consideration. A struck out option will remain present as you progress through the exam, unless you select to remove it.

Right-click on an option to strike it out. Right-click again to remove the strikeout. Left-click on a struck out option to select it as your response. You may strike out as many or as few items as you like.

Practice using the Strikeout feature below. Once you have finished practicing, click the 'Next' button to continue.

How many lungs does the typical human body have?

A  One
B  Two
C  Three
D  Four
Section Review

During the examination, you can review the status of all questions in a current exam section using the grid icon located in the bottom left corner of the exam screen.

To navigate directly to a question, click the corresponding numbered icon. You may also filter your view by unattempted, attempted, and flagged questions. The Section Review can be locked in place using the padlock icon and closed using the "X" icon.

Click the 'Next' button to continue.
During the examination, you will have the opportunity to give feedback to each question presented to you.

To comment on a question, click the **Comment** button displayed at the bottom of the exam screen. Then proceed to type the comment in the pop-up window, or remove the comment if necessary.

Please make sure your comment is relevant to the question you are viewing. Comments intended to challenge questions should provide the problematic details. At the end of the examination there will be a general comments box to capture the overall testing experience.

Please note that providing feedback is optional. The examination timer will continue to run while comments are being entered.

**Click the 'Next' button to continue.**
Viewing an Exhibit

An exhibit will be associated with some questions. To view the exhibit, click on the "Exhibit" button as shown above, which will be available between the question and answer options. The image will open in a new window with interactive features such as zoom and pan capabilities. Please note that zoom is only available with high resolution images, so this feature may not be functional on every exhibit.

To close the exhibit window, click the "X" in the upper-right corner.

Click the 'Next' button to continue.
Items 1-4, the arrows are used to pan within a zoomed image.
Items 5 & 6, Use the +/- magnifying glass to zoom in or out.
Item 7, Use the refresh (circular arrows) button to return the image back to its original zoom.
Item 8, Use the four-way arrow button to return the image back to its original zoom.

The exhibit window can be moved and adjusted (minimized, maximized, resized) much like you would any other window on a computer screen.
Using the PDF Viewer

Refer to the image below to assist you in understanding the PDF functionality.

Open the PDF Viewer within the exam

Within the appropriate item, click on the relevant source material to open the PDF Viewer.

If more than one PDF exists for your exam, select the "library button" in the upper right-hand corner to display.

Navigating through the PDF Viewer

You can use the mouse to navigate through the PDF document. To view thumbnails of each PDF page, click on the "Thumbnail" button and select a page to view. If your PDF has bookmarks, click on the bookmark icon to view.

Other Functions of the PDF Viewer

- Pan - Click and drag to pan around the document.
- Zoom In/Out - Click to zoom in and out of the document. Other predefined options available in the drop-down list are: Automatic Zoom, Actual Size, Fit Page, and Full Width.
- Highlight - To highlight text, click and drag the mouse cursor over the desired text. Click the Highlight button that appears after releasing the mouse button. To remove the highlight, click on any area of the highlighted text.

Click the 'Next' button to continue.

On the image on the next page, the bookmark icon is circled in red.

To remove the PDF dropdown menu from view, click on the library button a second time.
Pressure Vessel Inspection, In-service Inspection, and Alteration

API 510
TENTH EDITION, MAY 2014

ADDENDUM, MAY 2017

Special Notes

API publications necessarily address problems of a general nature. With respect to particular circumstances, local, state, and federal laws and regulations should be reviewed.

Neither API nor any of its employees, subcontractors, consultants, committees, or other assignees make any warranty or representation, either express or implied, with respect to the accuracy, completeness, or usefulness of the
Translations

If during the registration process with API, you elected to test with an available translation, it will be available for test questions. The selection of testing with a translation cannot be made or modified on the test day. For candidates who have selected to take a translated exam, the English question and options will be presented above the translation.

Click the 'Next' button to continue.
**Ending Exam Sections**

After completing and reviewing all of the questions within a section, you can navigate to the next section by clicking the **Finish Section** button in the top-right corner of the screen. Once clicked, a pop-up window will appear confirming you want to finish the section. Select "**Yes, I would like to finish this section**" to submit your answers for that section and progress to the next section.

The final section of the test is a short survey. Once you have completed the survey, you can end your session by clicking the **Finish Test** button in the top-right corner of the screen and confirming you would like to finish the test.

Please note that once you leave a section, you may not return. Any questions that are left incomplete will be marked as incorrect.

**Click the 'Next' button to continue.**
Tutorial Conclusion

This concludes the tutorial. You can review the tutorial by clicking on the "Back" button to back up one screen at a time, or by using the numbered buttons displayed on the left side of the screen. You may view the tutorial at any point during an active examination by clicking on the question mark icon. This icon can be found in the bottom left of the screen once you have begun testing.

Good luck with the examination.

Click the 'Start the Test' button to exit the tutorial and begin the examination.