

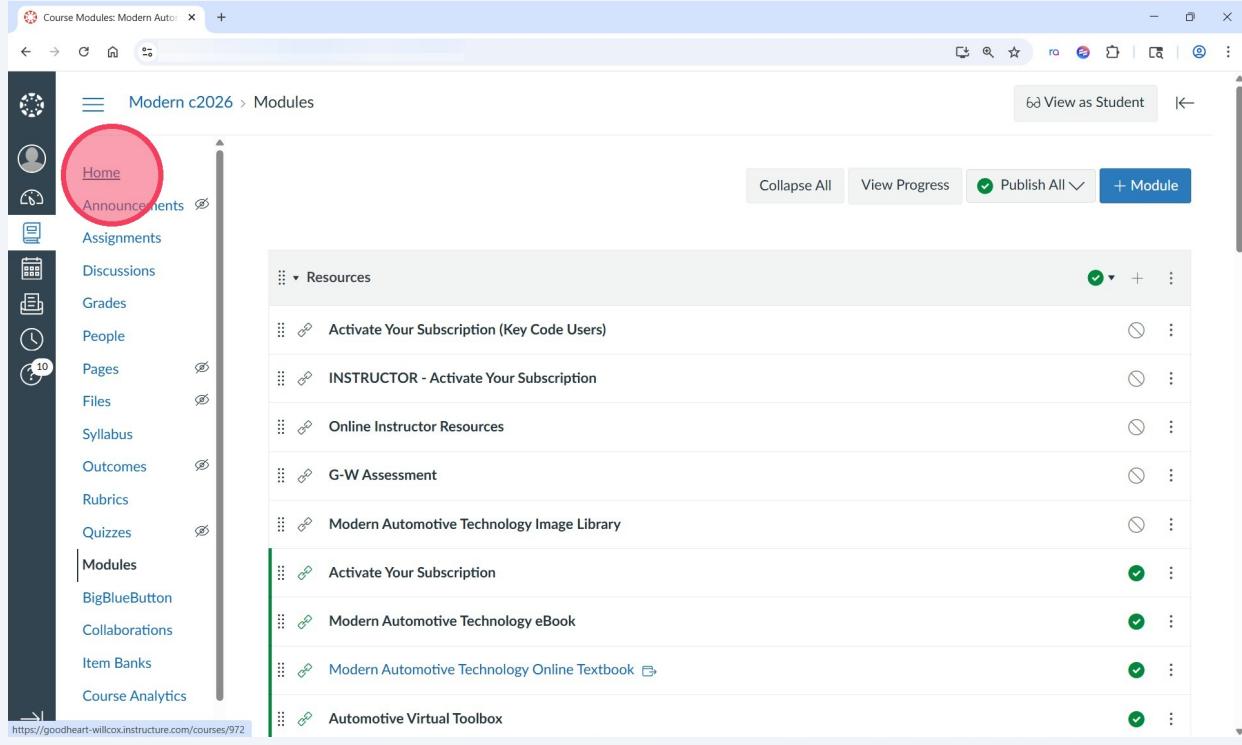
Navigating the Automotive Virtual Toolbox, ASE Video Library, and Multimeter Simulations in an LMS



G-W content works similarly in all LMS's, but in this Onboarding Video, we will demonstrate these steps in Canvas.

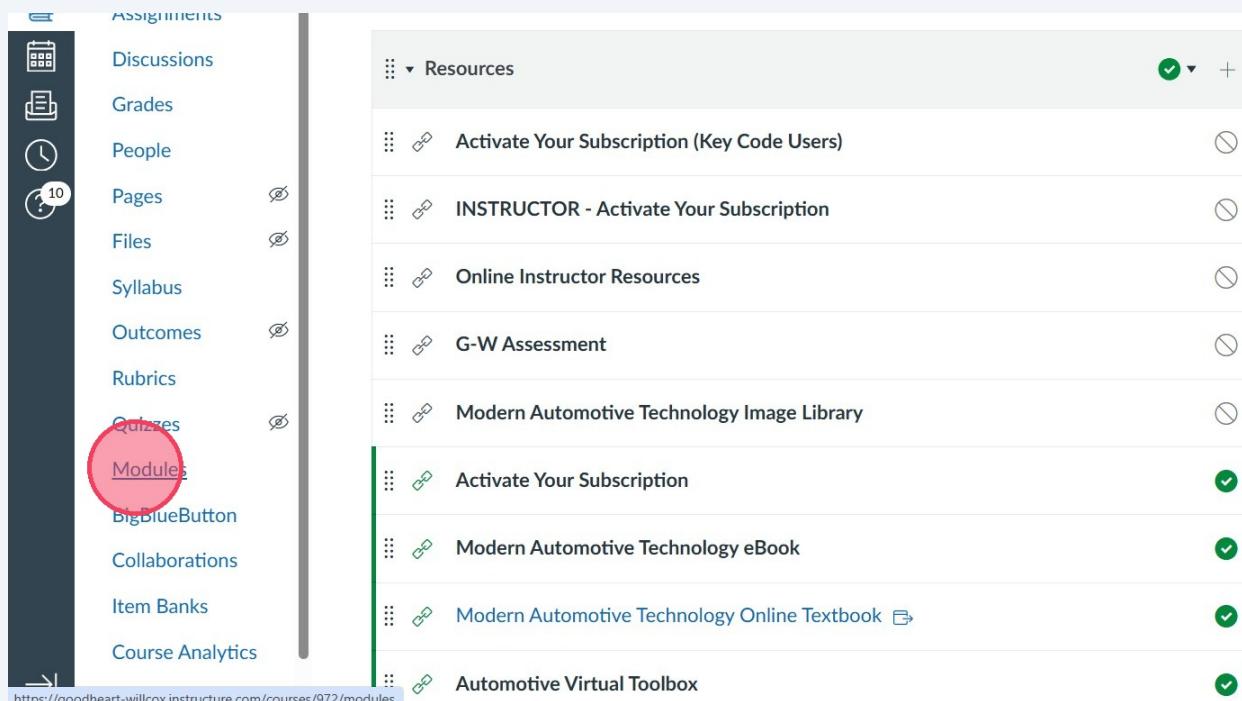
A screenshot of the Canvas LMS interface. The left sidebar shows various course navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules (which is selected and highlighted in blue), BigBlueButton, Collaborations, Item Banks, Course Analytics, and G-W Online ITI 1.3. The main content area is titled 'Modern c2026 > Modules'. It shows a list of resources under the 'Resources' section, including: 'INSTRUCTOR - Activate Your Subscription', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook', 'Modern Automotive Technology Online Textbook', and 'Automotive Virtual Toolbox'. Each resource item has a small icon, a title, and a set of three-dot and checkmark buttons. At the top right of the main area, there are buttons for 'View as Student', 'Collapse All', 'View Progress', 'Publish All', and '+ Module'.

1 After logging in to Canvas and going to your Automotive course, you will find G-W content either on the **Home** page of the course



The screenshot shows the Canvas course interface for 'Modern c2026'. The left sidebar has a red circle around the 'Home' link. The main content area shows a 'Resources' section with several items, including 'Activate Your Subscription (Key Code Users)', 'INSTRUCTOR - Activate Your Subscription', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook', 'Modern Automotive Technology Online Textbook', and 'Automotive Virtual Toolbox'. Each item has a checkbox and a three-dot menu icon.

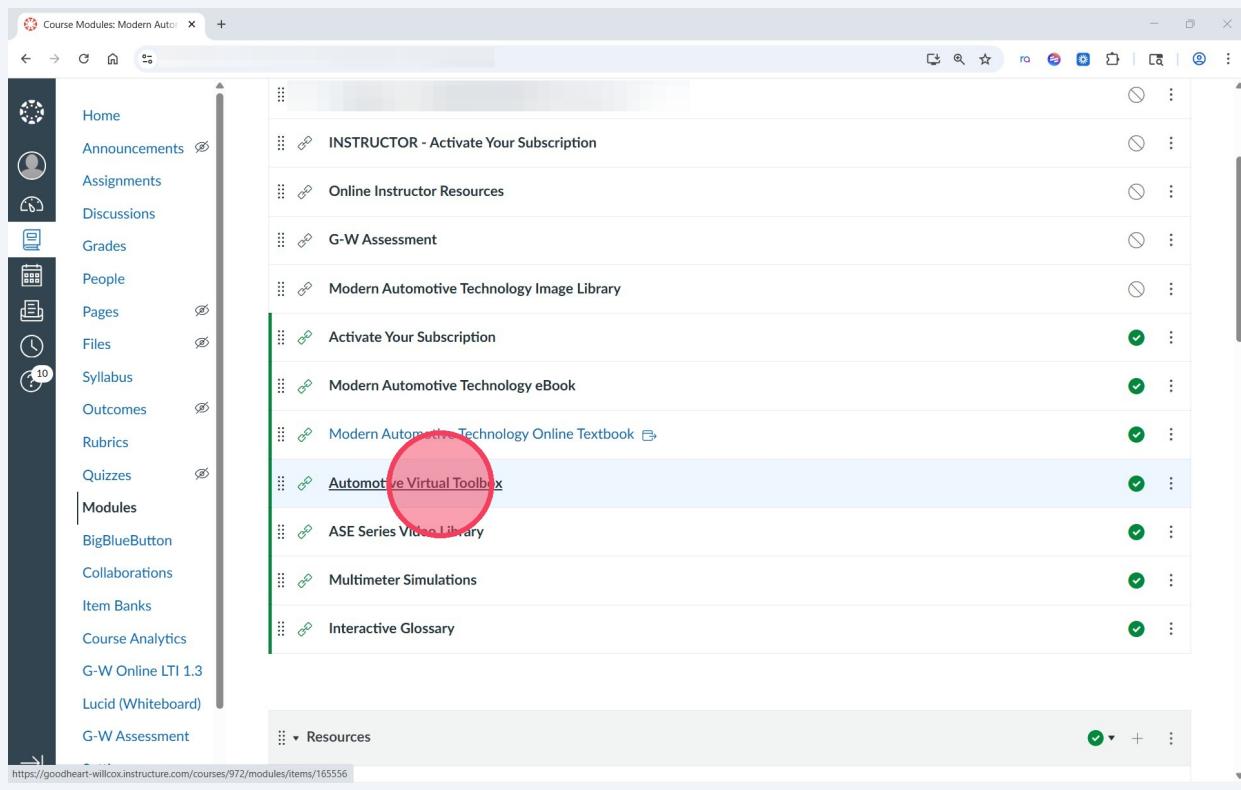
2 or in the **Modules** section of the course depending on how you or the LMS Administrator has set up each course shell.



The screenshot shows the Canvas course interface for 'Modern c2026'. The left sidebar has a red circle around the 'Modules' link. The main content area shows a 'Resources' section with the same list of items as the Home page: 'Activate Your Subscription (Key Code Users)', 'INSTRUCTOR - Activate Your Subscription', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook', 'Modern Automotive Technology Online Textbook', and 'Automotive Virtual Toolbox'. Each item has a checked checkbox and a three-dot menu icon.

3

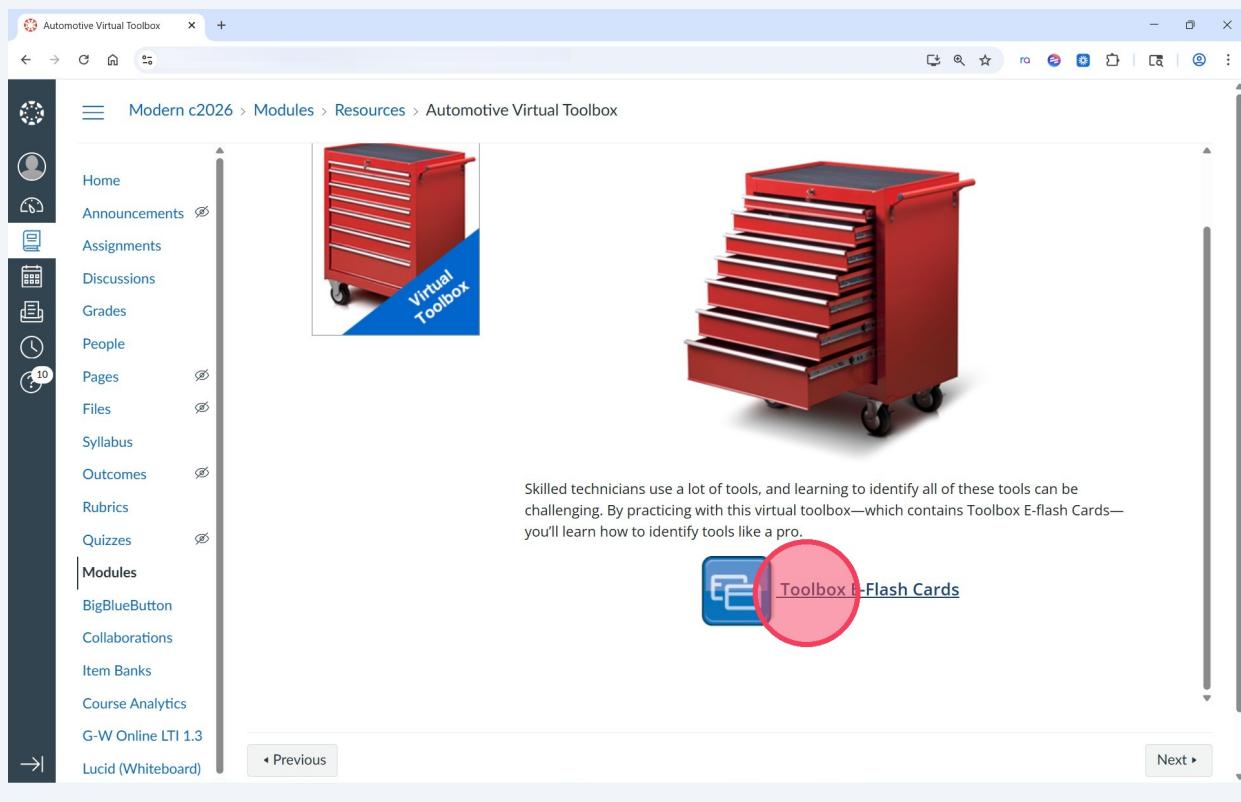
To begin, let's explore the **Automotive Virtual Toolbox** which may be found under the **Resources** module.



A screenshot of a web browser displaying a list of course modules in Canvas LMS. The left sidebar shows various modules like Home, Announcements, Assignments, etc. The main content area lists several resources under the 'Resources' module. The 'Automotive Virtual Toolbox' link is highlighted with a large red circle. The URL in the address bar is <https://goodheart-willcox.instructure.com/courses/972/modules/items/165556>.

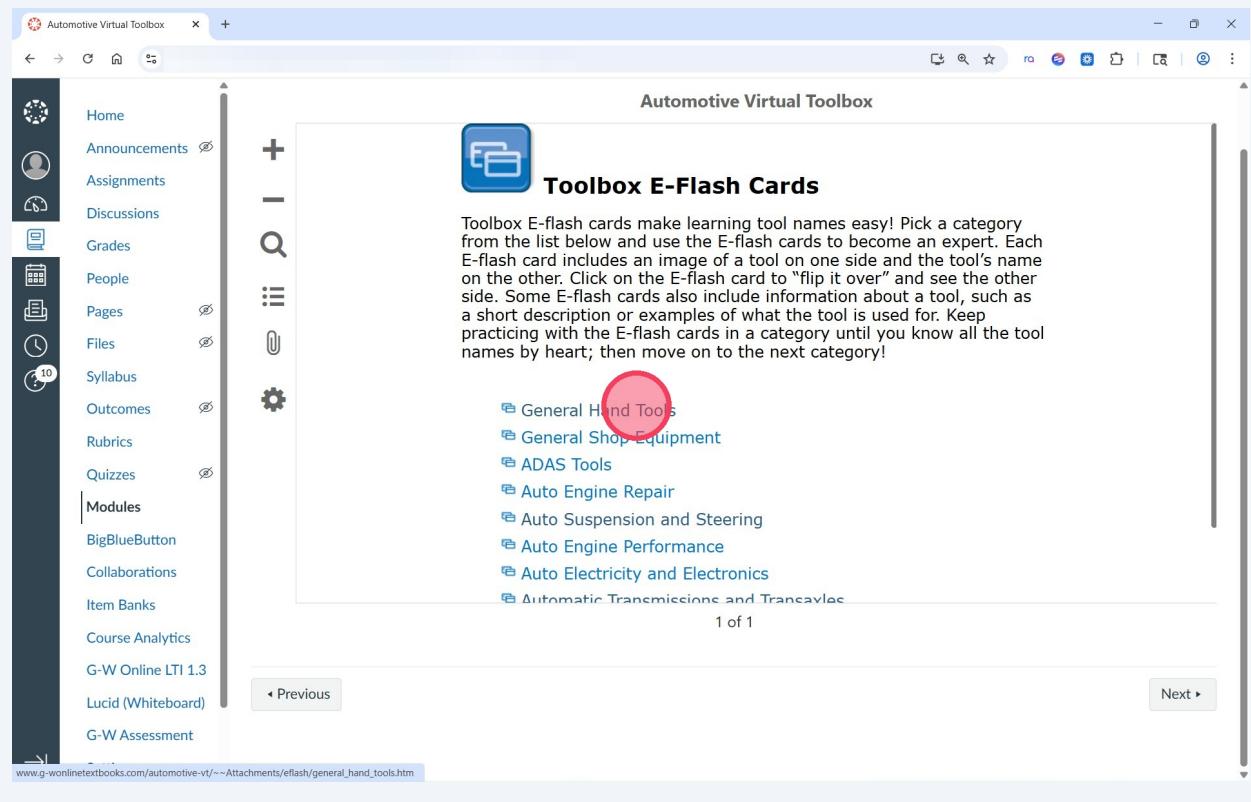
4

This interactive activity contains Toolbox E-flash Cards to help your students identify tools like a pro. Select the link to learn more.



A screenshot of a web browser displaying the 'Automotive Virtual Toolbox' page. The left sidebar shows various course modules. The main content area features a large image of a red toolbox. Below the image, text reads: 'Skilled technicians use a lot of tools, and learning to identify all of these tools can be challenging. By practicing with this virtual toolbox—which contains Toolbox E-flash Cards—you'll learn how to identify tools like a pro.' A blue button labeled 'Toolbox E-Flash Cards' is highlighted with a large red circle. The URL in the address bar is <https://goodheart-willcox.instructure.com/courses/972/modules/items/165556>.

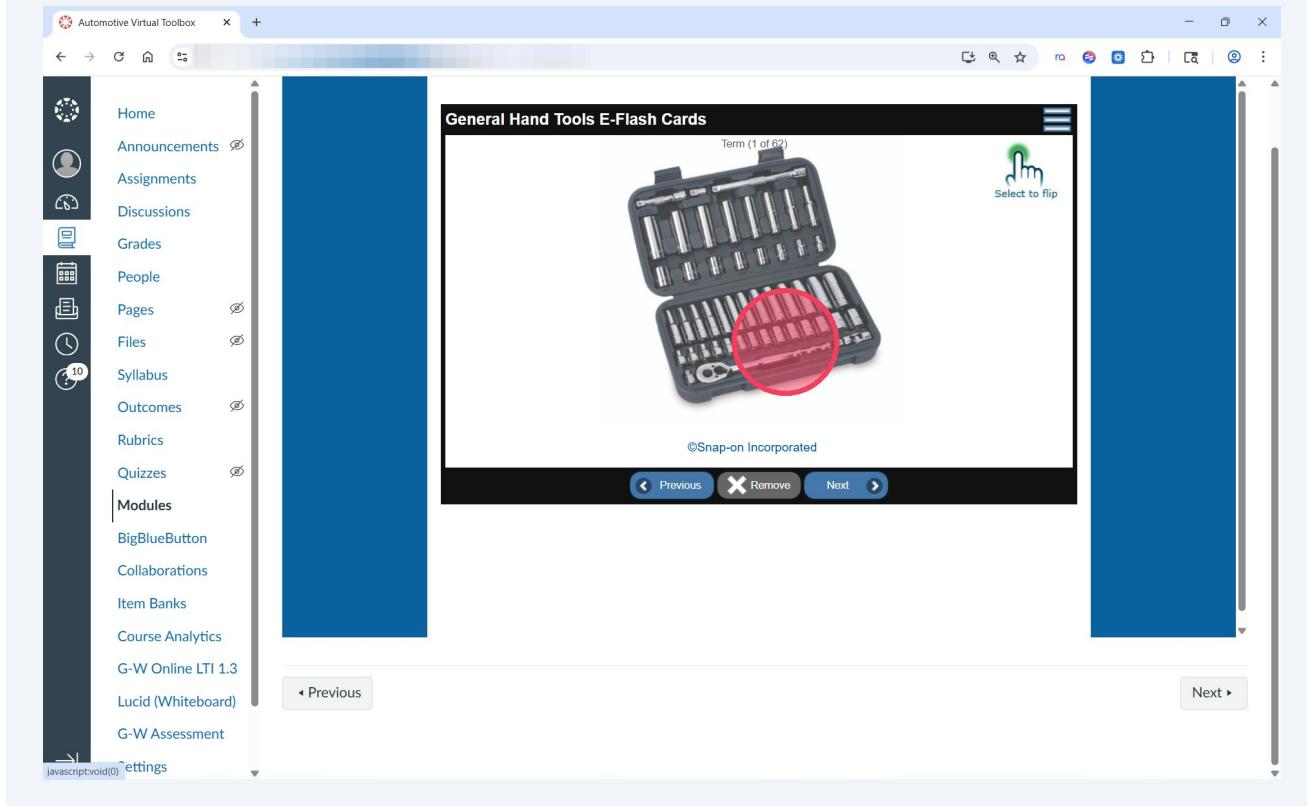
5 Select a category from the flash card decks provided.



The screenshot shows a web browser window titled "Automotive Virtual Toolbox". The left sidebar contains a list of course navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, BigBlueButton, Collaborations, Item Banks, Course Analytics, G-W Online LTI 1.3, Lucid (Whiteboard), and G-W Assessment. The main content area is titled "Toolbox E-Flash Cards" and features a blue icon of a clipboard with a tool. Below the title is a descriptive text block: "Toolbox E-flash cards make learning tool names easy! Pick a category from the list below and use the E-flash cards to become an expert. Each E-flash card includes an image of a tool on one side and the tool's name on the other. Click on the E-flash card to "flip it over" and see the other side. Some E-flash cards also include information about a tool, such as a short description or examples of what the tool is used for. Keep practicing with the E-flash cards in a category until you know all the tool names by heart; then move on to the next category!" A list of categories is provided, with "General Hand Tools" circled in red: General Hand Tools, General Shop Equipment, ADAS Tools, Auto Engine Repair, Auto Suspension and Steering, Auto Engine Performance, Auto Electricity and Electronics, and Automatic Transmissions and Transaxles. At the bottom of the list, it says "1 of 1". Navigation buttons "Previous" and "Next" are visible at the bottom of the list.

6

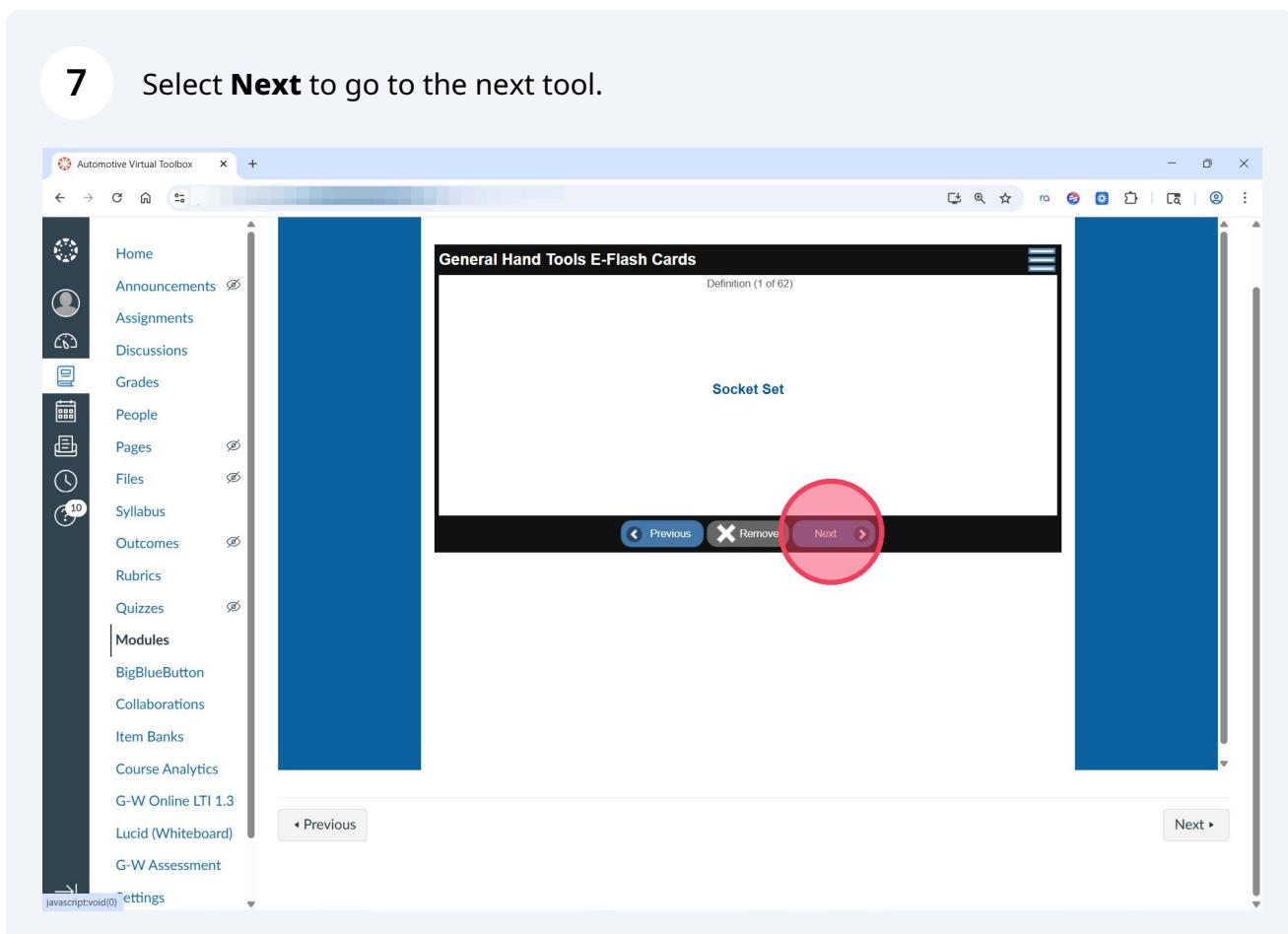
An image of a tool will display and the user may click on the e-card to flip the card over to see if their guess was correct.



The screenshot shows a Moodle course interface. On the left is a vertical navigation bar with icons for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, and Modules. The Modules section is currently selected. The main content area displays an e-flash card titled "General Hand Tools E-Flash Cards" with the sub-titile "Term (1 of 62)". The card shows an image of an open socket set. A red circle highlights the "Select to flip" button in the top right corner of the image area. Below the image, the text "©Snap-on Incorporated" is visible. At the bottom of the card are buttons for "Previous", "Remove", and "Next". The "Next" button is highlighted with a red circle. The bottom right corner of the card has a "Next" button with a red circle around it. The bottom right corner of the entire card area also has a red circle.

7

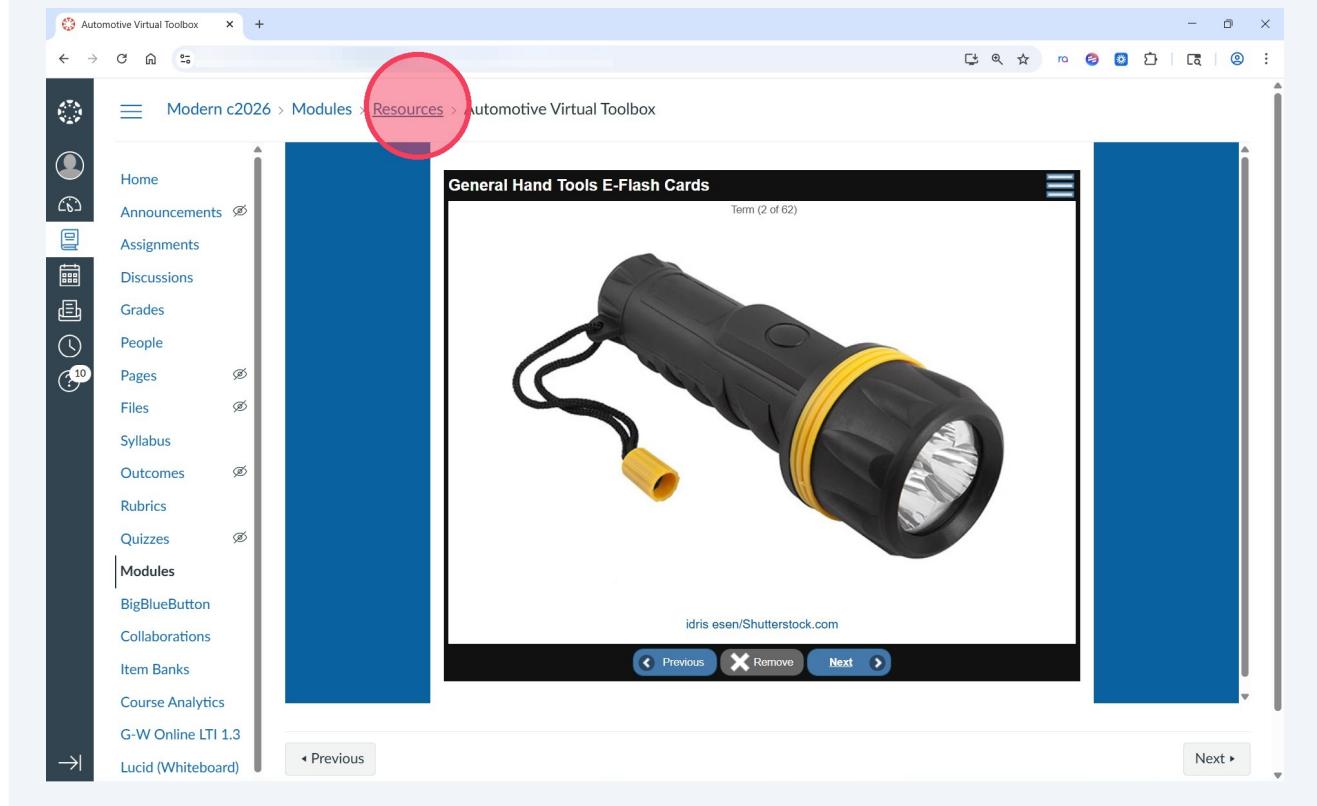
Select **Next** to go to the next tool.



The screenshot shows the same Moodle course interface as the previous one. The navigation bar and course structure are identical. The main content area now displays the next e-flash card in the sequence. The title is "General Hand Tools E-Flash Cards" and the subtitle is "Definition (1 of 62)". The card shows the text "Socket Set". The "Next" button at the bottom of the card is highlighted with a red circle. The "Next" button at the bottom right of the card area is also highlighted with a red circle. The bottom right corner of the entire card area has a red circle.

8

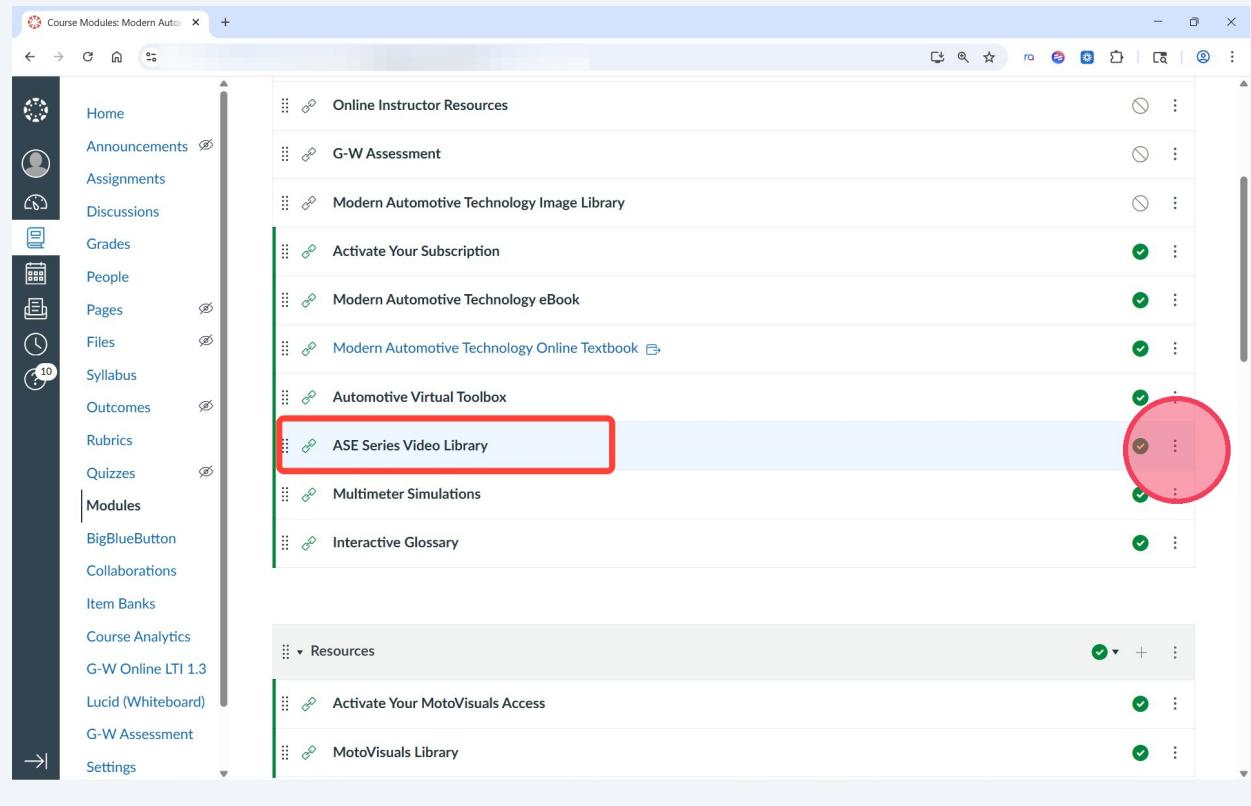
Once students have completed this self-assessment activity, they may go back to the course materials by selecting the **Resources** link above.



A screenshot of a Moodle course page titled 'Automotive Virtual Toolbox'. The page shows the course navigation bar with 'Modern c2026 > Modules > Resources > Automotive Virtual Toolbox'. A red circle highlights the 'Resources' link in the navigation bar. The main content area displays an 'E-Flash Cards' module titled 'General Hand Tools E-Flash Cards'. The card shows a black and yellow flashlight. Below the image is the text 'idris esen/Shutterstock.com'. At the bottom of the card are buttons for 'Previous', 'Remove', and 'Next'. The left sidebar contains a vertical navigation menu with icons for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, BigBlueButton, Collaborations, Item Banks, Course Analytics, G-W Online LTI 1.3, and Lucid (Whiteboard). The 'Modules' link is currently selected. The right sidebar has a vertical scroll bar.

9

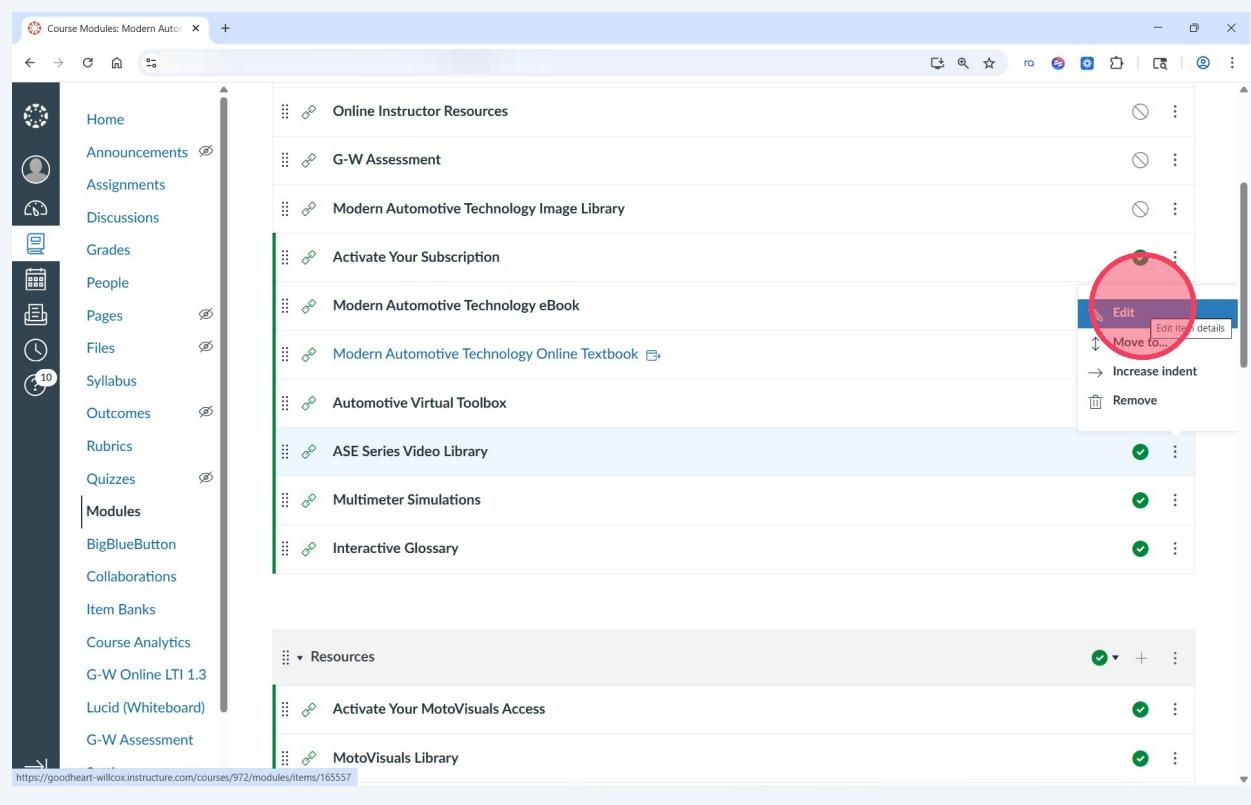
If you'd like to open any of our resources in a new tab to enhance the viewing experience, please select the 3 dots next to the specific resource



A screenshot of a course management system interface. On the left, a sidebar lists various course modules and tools. The main content area displays a list of resources. One resource, 'ASE Series Video Library', is highlighted with a red rectangular box. To the right of this box, a red circle with three dots is overlaid on the standard edit icon (three vertical dots) for the resource.

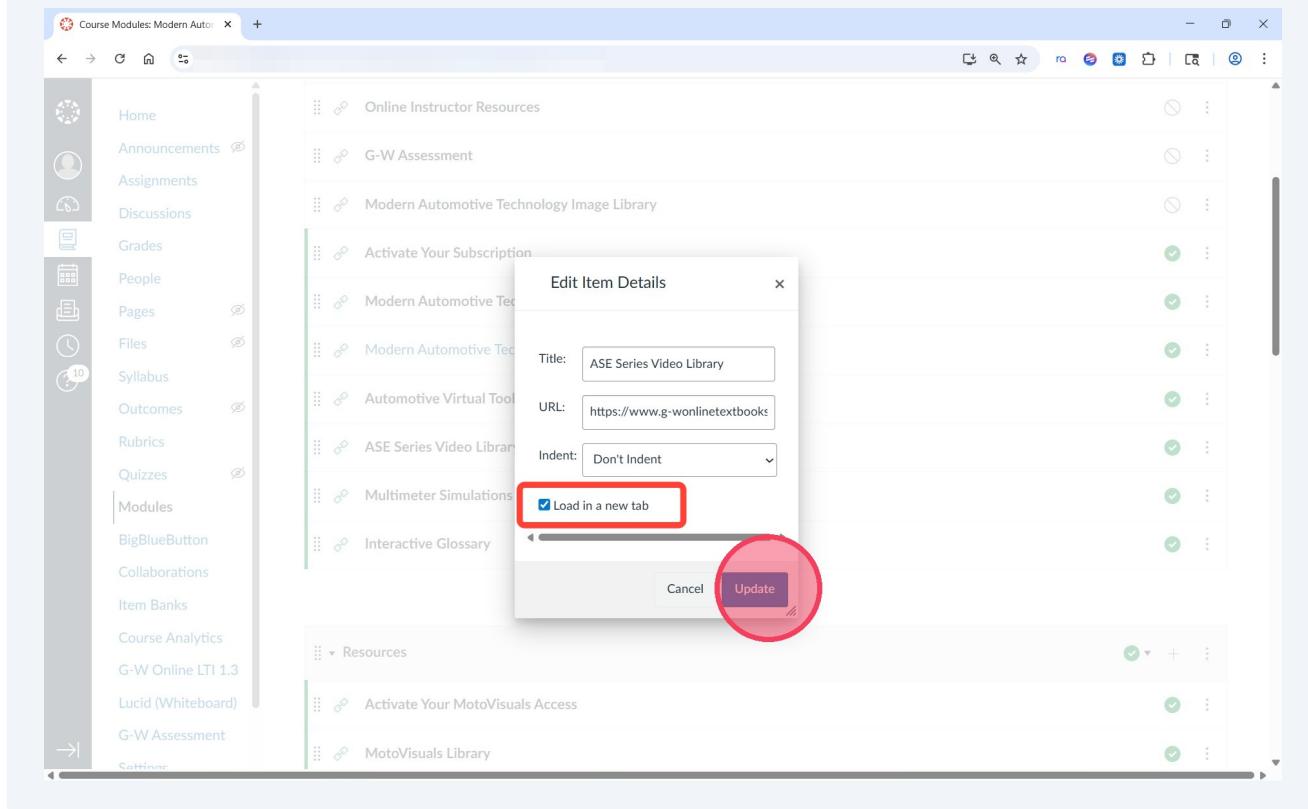
10

for example the **ASE Series Video Library** and select **Edit**.

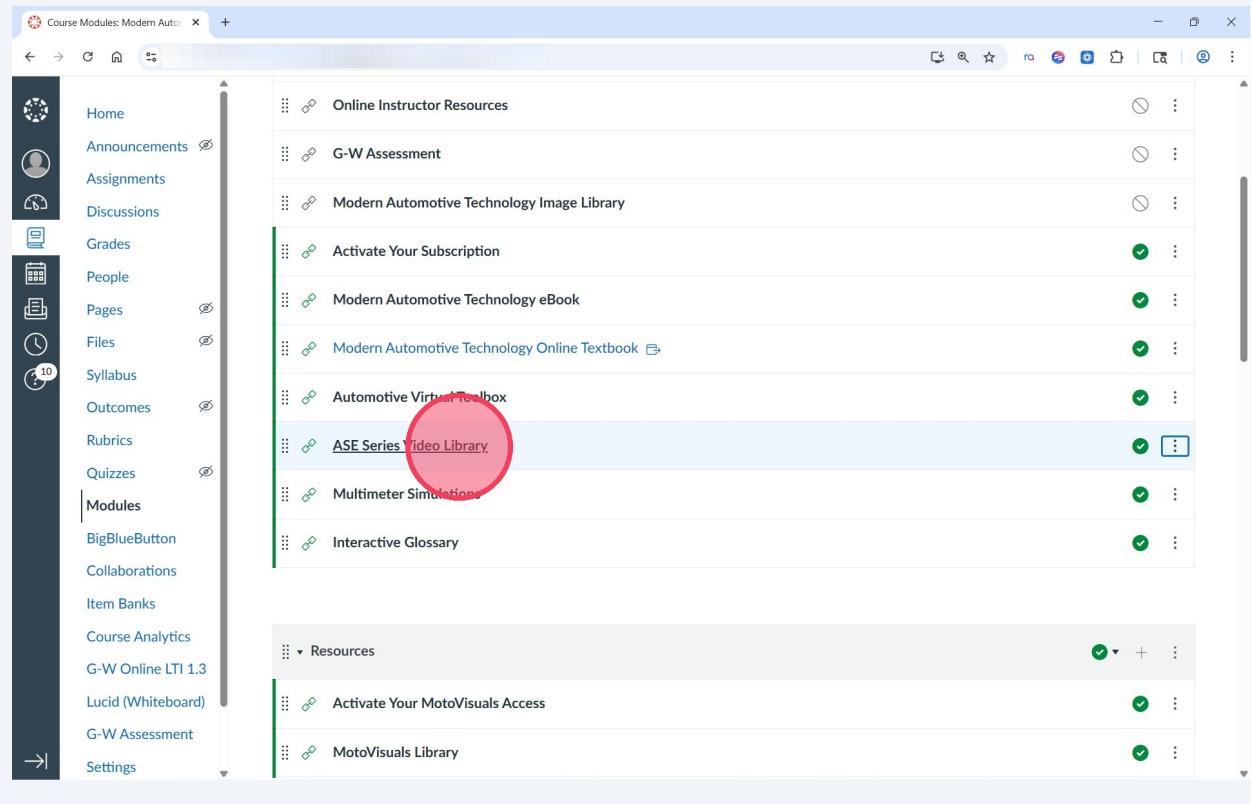


A screenshot of the same course management system interface as the previous image. A context menu is now open over the 'ASE Series Video Library' resource. The 'Edit' option in the menu is highlighted with a red circle. Other options visible in the menu include 'Edit item details', 'Move to...', 'Increase indent', and 'Remove'.

11 Then check the box which reads *Load in new tab* and select **Update**.

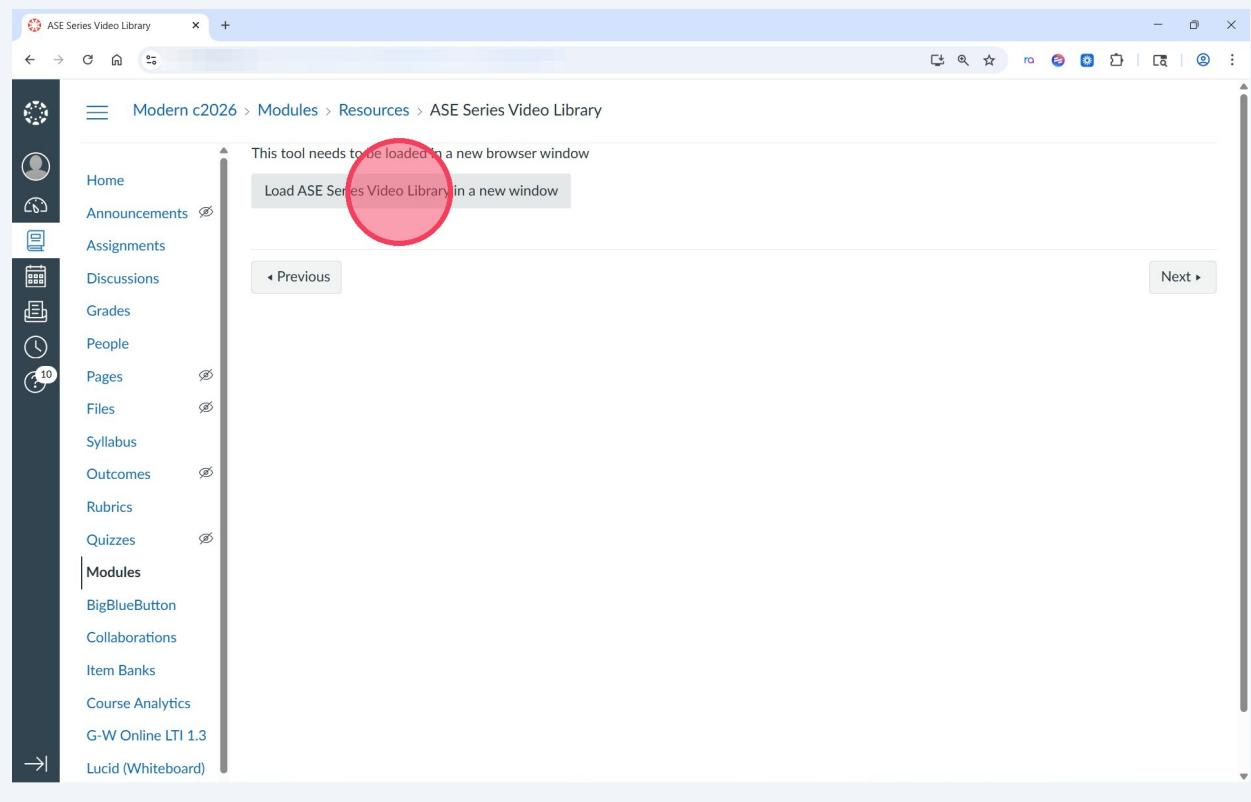


12 Now after selecting the ASE Series Video Library link



A screenshot of a course management system interface. On the left, a vertical sidebar lists various course modules: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, and Modules. Under the Modules section, 'BigBlueButton', 'Collaborations', 'Item Banks', 'Course Analytics', 'G-W Online LTI 1.3', 'Lucid (Whiteboard)', 'G-W Assessment', and 'Settings' are listed. The main content area shows a list of resources. A red circle highlights the 'ASE Series Video Library' link, which is located under the 'Resources' section. The list includes: Online Instructor Resources, G-W Assessment, Modern Automotive Technology Image Library, Activate Your Subscription, Modern Automotive Technology eBook, Modern Automotive Technology Online Textbook (with a link icon), Automotive Virtual Toolbox, ASE Series Video Library (with a blue square icon), Multimeter Simulations, and Interactive Glossary.

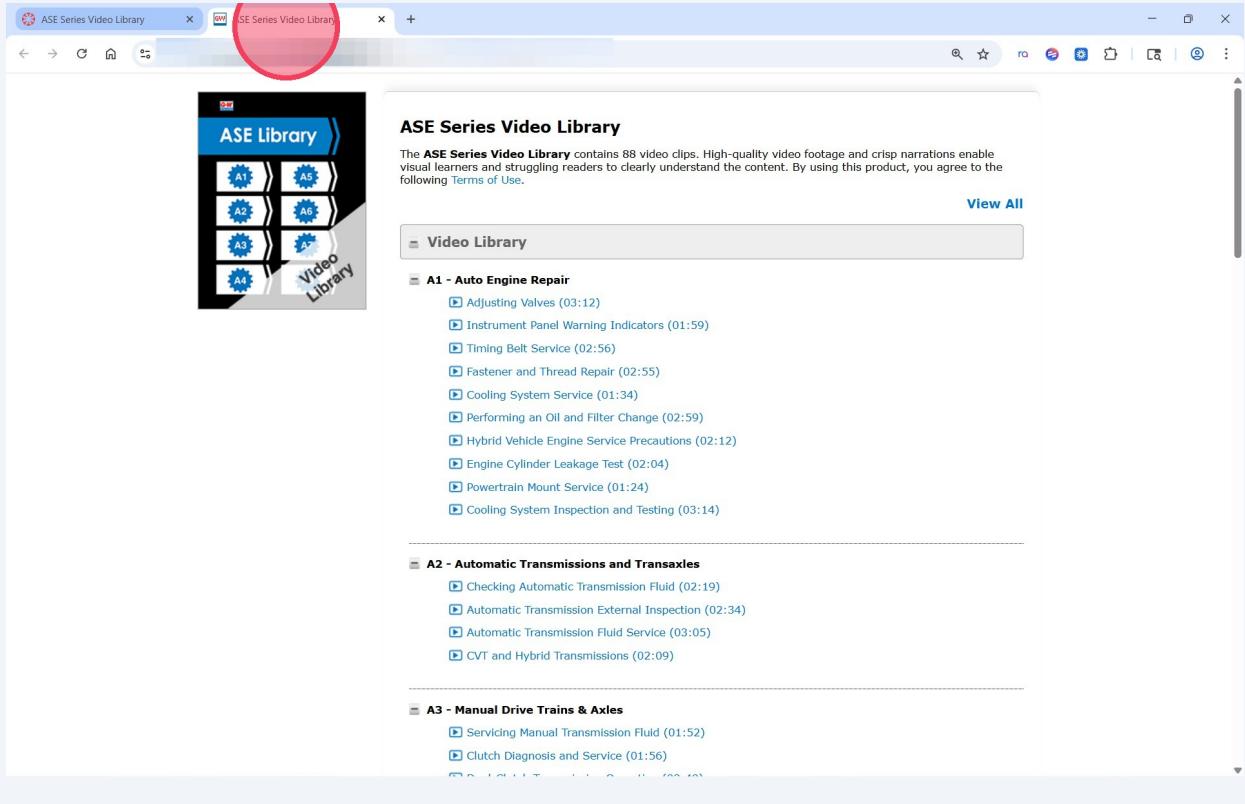
13 you'll see the option to open the video library in a new window. Select that button



A screenshot of the 'ASE Series Video Library' page. The page header shows the path: Modern c2026 > Modules > Resources > ASE Series Video Library. A message at the top states: 'This tool needs to be loaded in a new browser window'. Below this, a button labeled 'Load ASE Series Video Library in a new window' is highlighted with a red circle. On either side of this button are 'Previous' and 'Next' navigation buttons. The left sidebar is identical to the one in the previous screenshot, listing various course modules. The main content area is the ASE Series Video Library page itself.

14

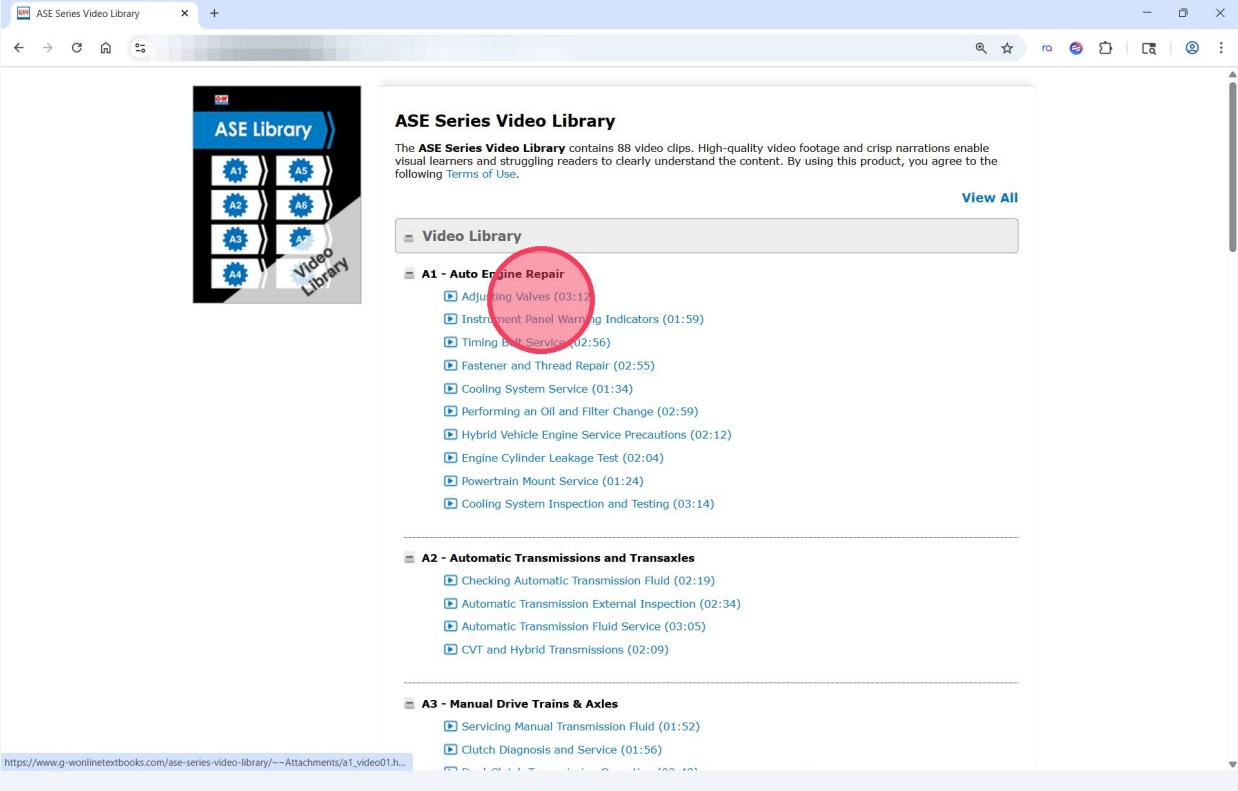
and a new tab will open with a full size view of the ASE Series Video Library. Here you will find a list of 88 videos divided into different sections from A1 - A8 of the ASE Series as well as a section on Safety.



The screenshot shows a web browser window with the title 'ASE Series Video Library' in the tab. A red circle highlights the tab area. The main content is the 'ASE Series Video Library' page. It features a sidebar with a 'Video Library' icon and sections for 'A1 - Auto Engine Repair', 'A2 - Automatic Transmissions and Transaxles', and 'A3 - Manual Drive Trains & Axles'. Each section lists several video clips with their titles and durations. A 'View All' link is located in the top right of the content area.

Section	Video Title	Duration
A1 - Auto Engine Repair	Adjusting Valves	03:12
	Instrument Panel Warning Indicators	01:59
	Timing Belt Service	02:56
	Fastener and Thread Repair	02:55
	Cooling System Service	01:34
	Performing an Oil and Filter Change	02:59
	Hybrid Vehicle Engine Service Precautions	02:12
	Engine Cylinder Leakage Test	02:04
	Powertrain Mount Service	01:24
	Cooling System Inspection and Testing	03:14
A2 - Automatic Transmissions and Transaxles	Checking Automatic Transmission Fluid	02:19
	Automatic Transmission External Inspection	02:34
	Automatic Transmission Fluid Service	03:05
	CVT and Hybrid Transmissions	02:09
A3 - Manual Drive Trains & Axles	Servicing Manual Transmission Fluid	01:52
	Clutch Diagnosis and Service	01:56

15 Select a link to view the video.



The ASE Series Video Library contains 88 video clips. High-quality video footage and crisp narrations enable visual learners and struggling readers to clearly understand the content. By using this product, you agree to the following [Terms of Use](#).

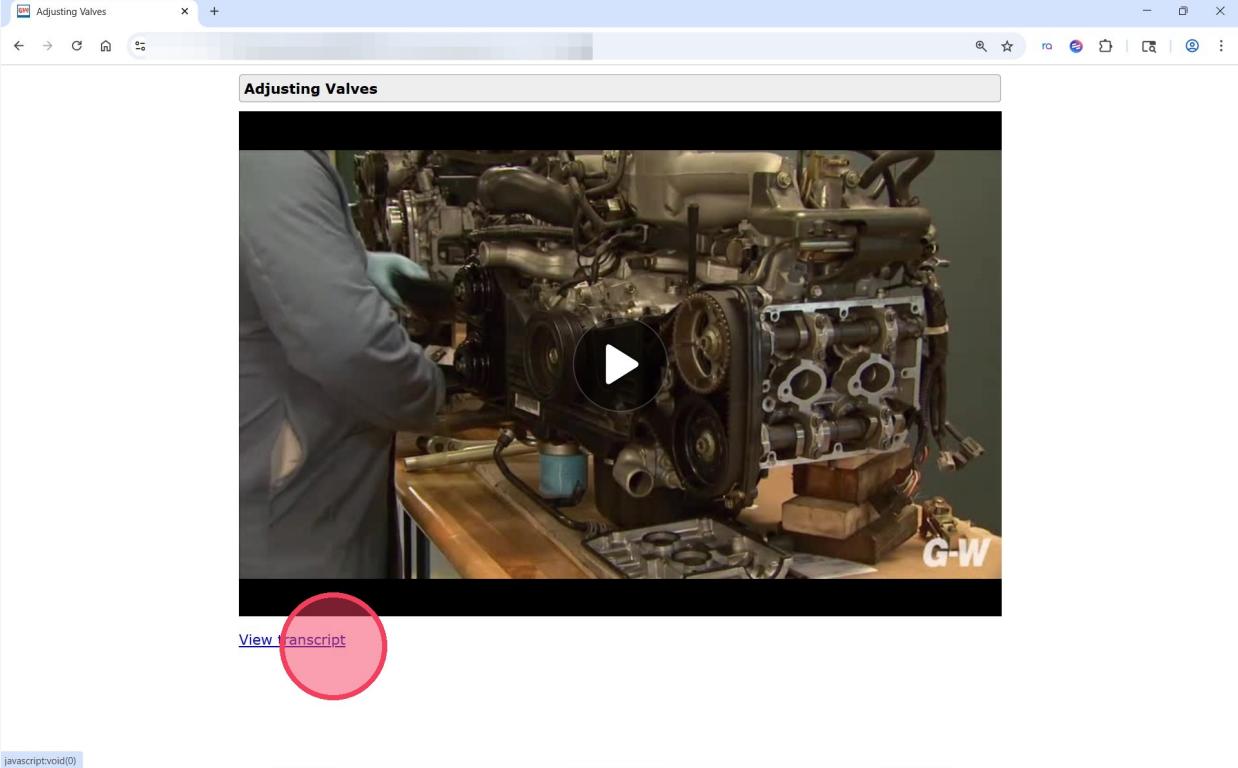
[View All](#)

Video Library

- A1 - Auto Engine Repair**
 - [Adjusting Valves \(03:12\)](#)
 - [Instrument Panel Warning Indicators \(01:59\)](#)
 - [Timing Belt Service \(02:56\)](#)
 - [Fastener and Thread Repair \(02:55\)](#)
 - [Cooling System Service \(01:34\)](#)
 - [Performing an Oil and Filter Change \(02:59\)](#)
 - [Hybrid Vehicle Engine Service Precautions \(02:12\)](#)
 - [Engine Cylinder Leakage Test \(02:04\)](#)
 - [Powertrain Mount Service \(01:24\)](#)
 - [Cooling System Inspection and Testing \(03:14\)](#)
- A2 - Automatic Transmissions and Transaxles**
 - [Checking Automatic Transmission Fluid \(02:19\)](#)
 - [Automatic Transmission External Inspection \(02:34\)](#)
 - [Automatic Transmission Fluid Service \(03:05\)](#)
 - [CVT and Hybrid Transmissions \(02:09\)](#)
- A3 - Manual Drive Trains & Axles**
 - [Servicing Manual Transmission Fluid \(01:52\)](#)
 - [Clutch Diagnosis and Service \(01:56\)](#)

https://www.g-wonlinetextbooks.com/ase-series-video-library/~Attachments/a1_video01.htm

16 If you would like to view the transcript, please select the View transcript link beneath the video player.

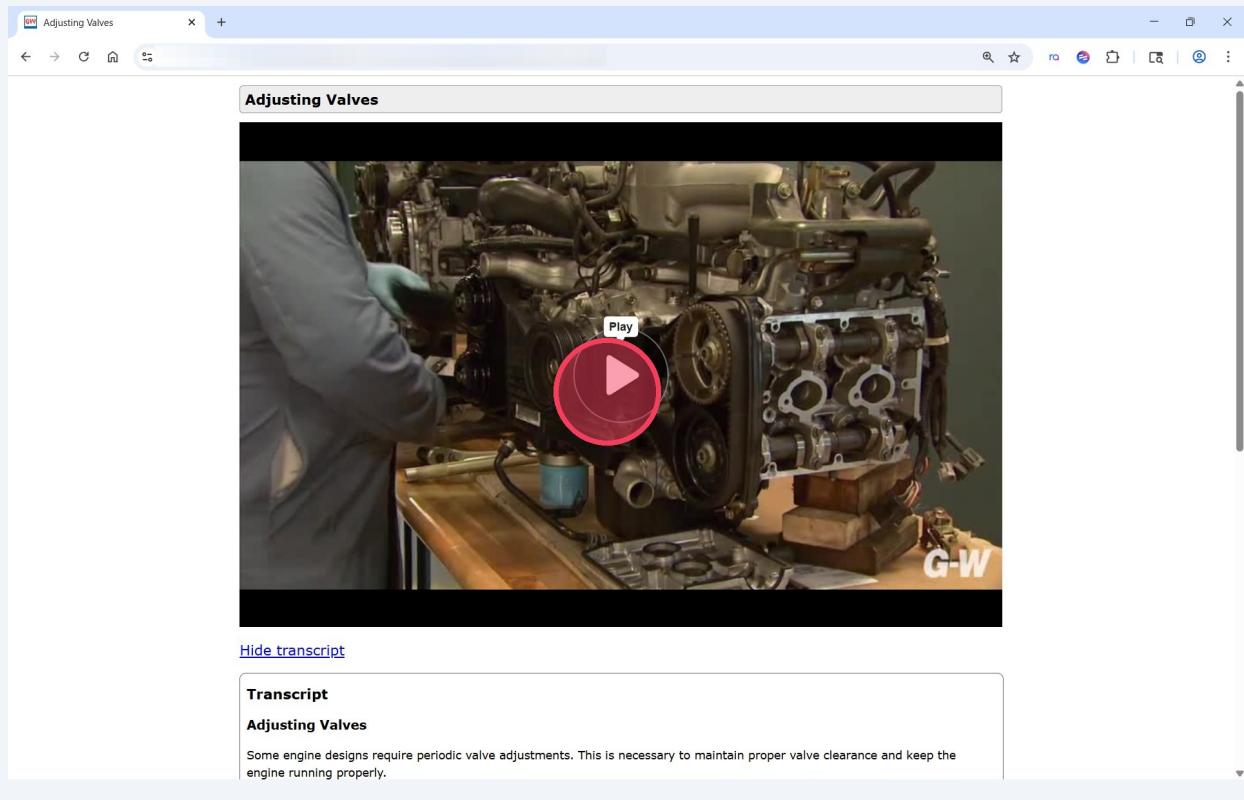


Adjusting Valves

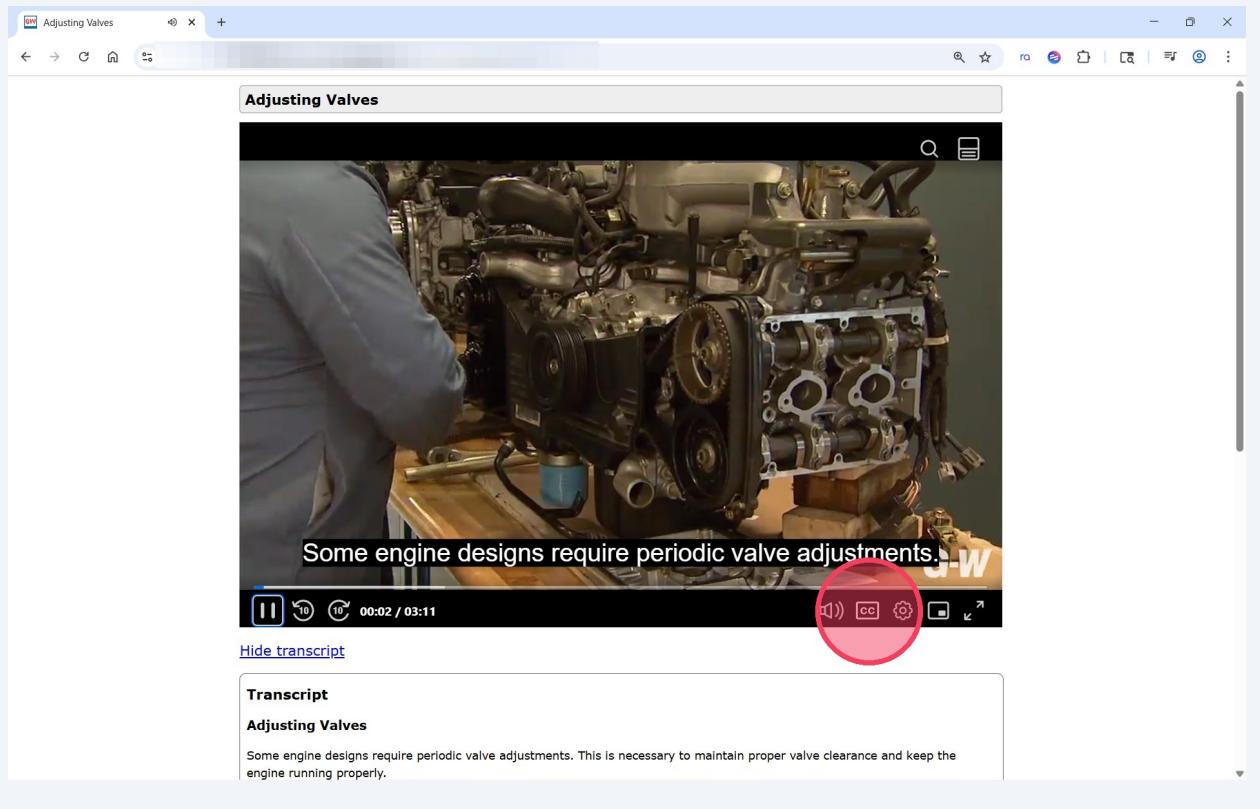
[View transcript](#)

`javascript:void(0)`

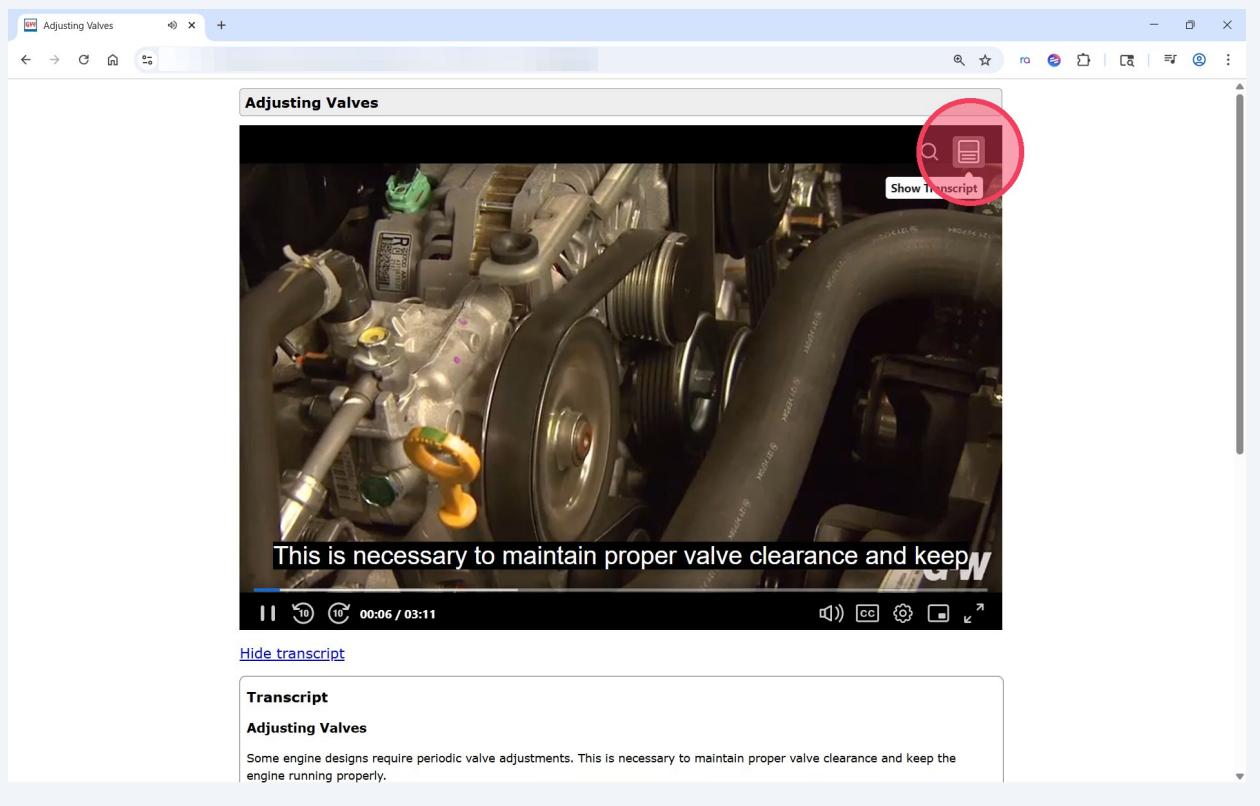
17 Select the Play button to view this video.



18 You may toggle the closed captioning feature on or off.

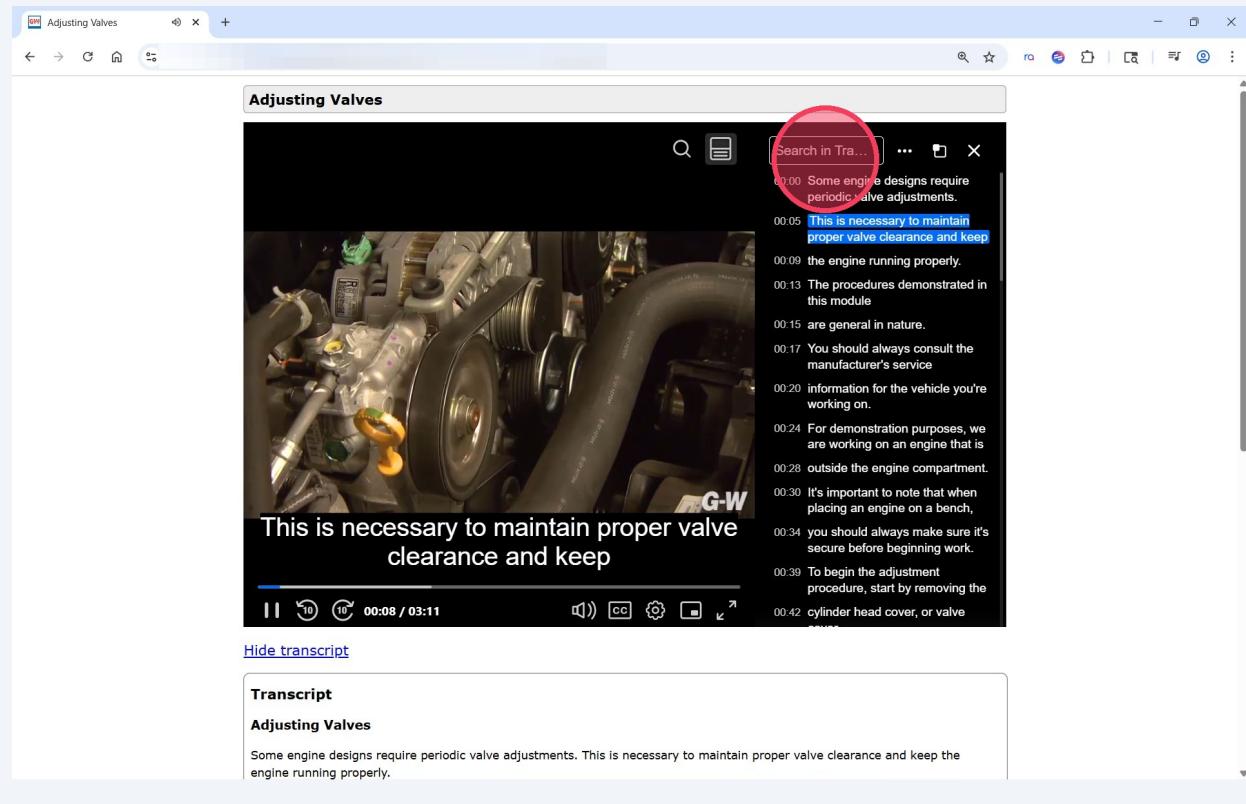


19 Another Accessibility feature offered in the video player is a searchable transcript.



20

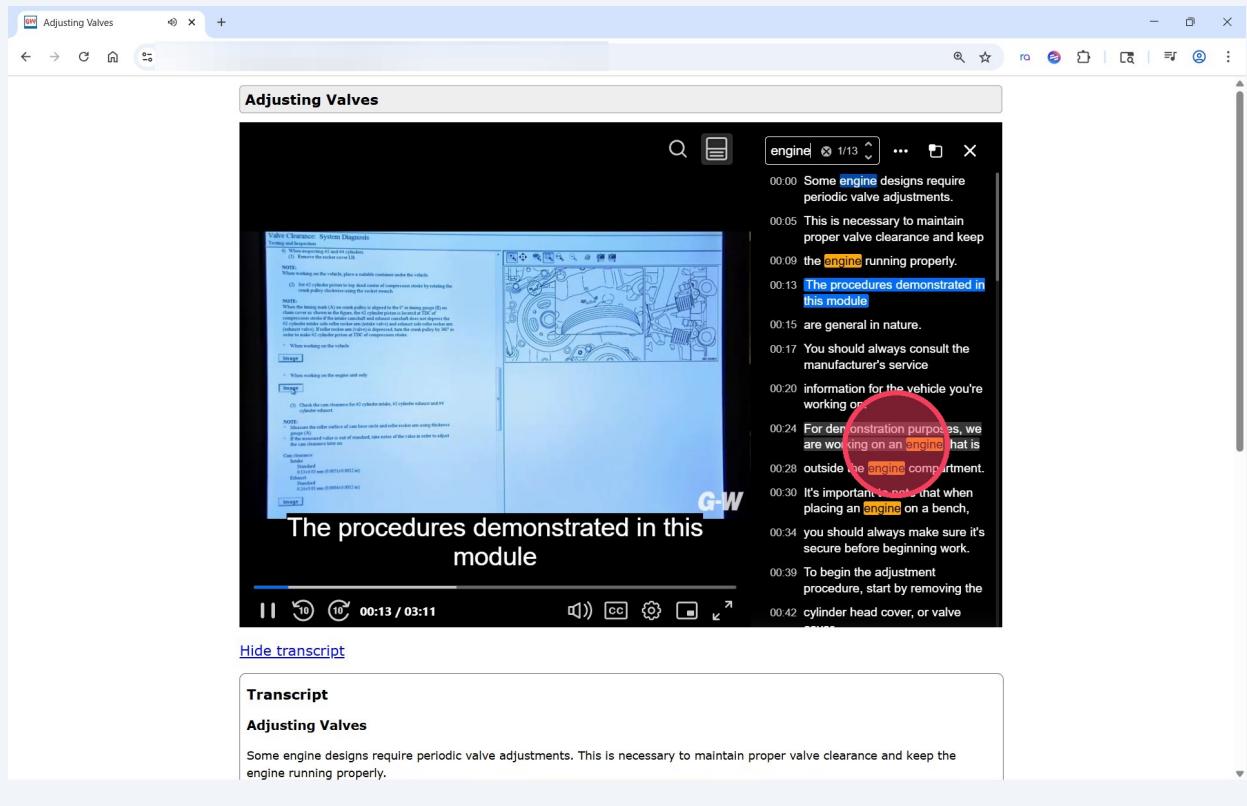
Some users may want to review a specific section of the video which they may do by conducting a keyword search in the transcript.



The screenshot shows a video player interface for a video titled "Adjusting Valves". The video frame displays a close-up of an engine's timing belt and valves. A subtitle at the bottom of the frame reads: "This is necessary to maintain proper valve clearance and keep". To the right of the video frame is a transcript window. At the top of the transcript window is a search bar with the placeholder text "Search in Tra...". Below the search bar, the transcript text begins with "00:00 Some engine designs require periodic valve adjustments." A portion of the text "This is necessary to maintain proper valve clearance and keep" is highlighted in blue, and a red circle is drawn around the "Search in Tra..." search bar and the highlighted text. The transcript continues with several lines of text, each preceded by a timestamp. At the bottom of the transcript window, there is a "Hide transcript" link. The video player interface includes standard controls like play/pause, volume, and a progress bar showing "00:08 / 03:11".

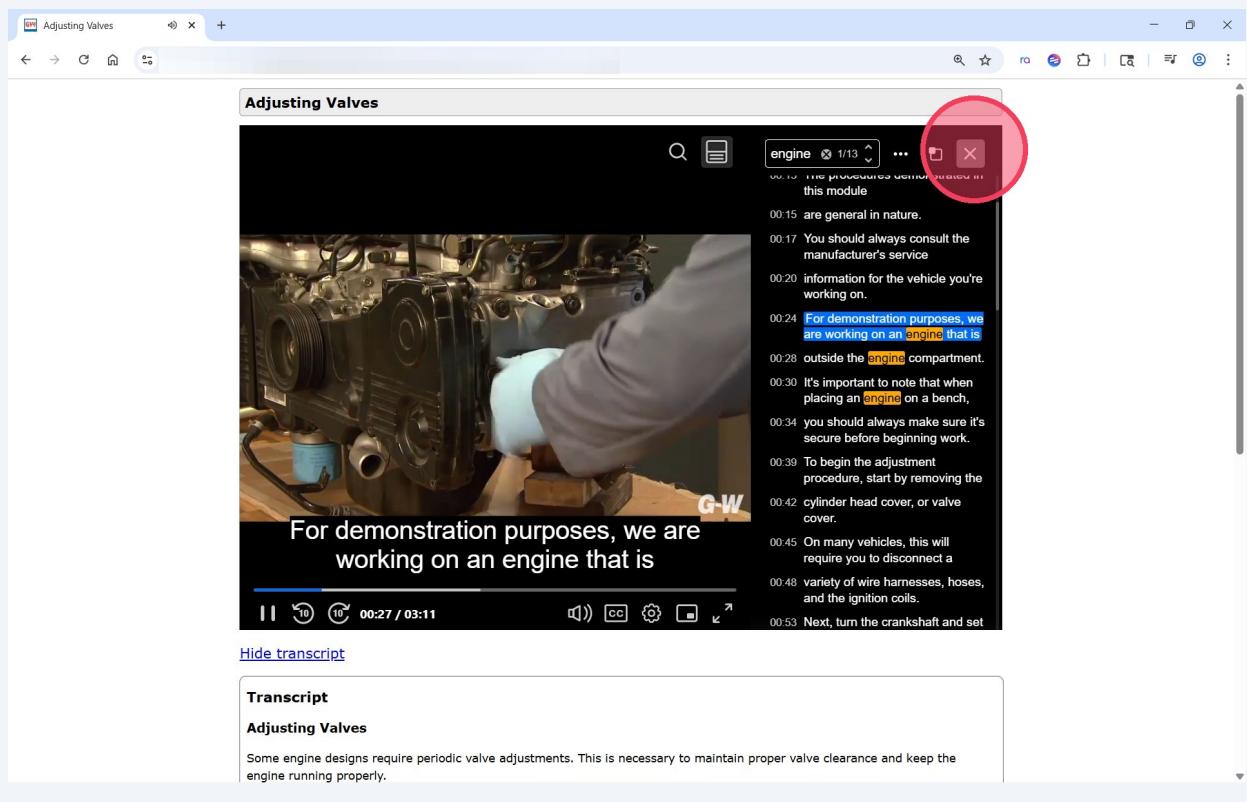
21

Once the search results appear, they may select the specific timestamp for that section of the video to which they'd like to skip.



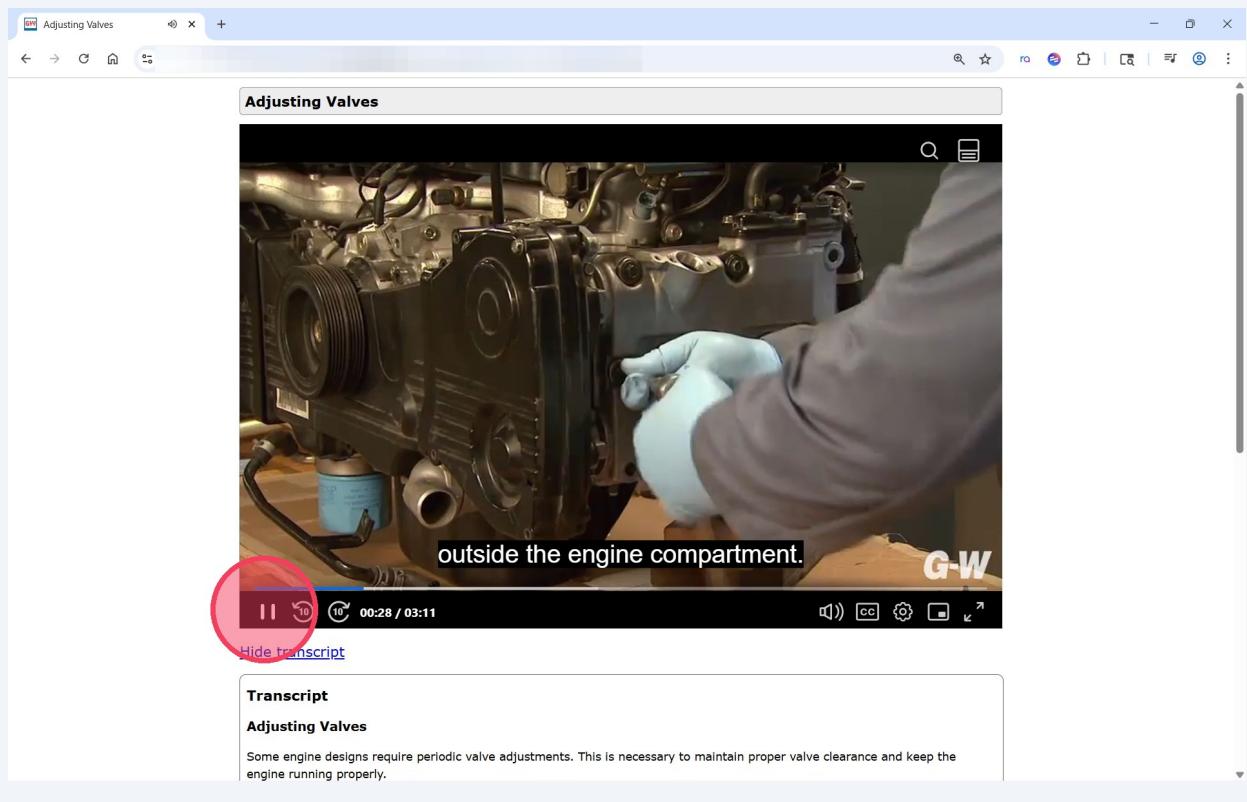
22

Select the X to close this feature when you are ready to proceed with the video.



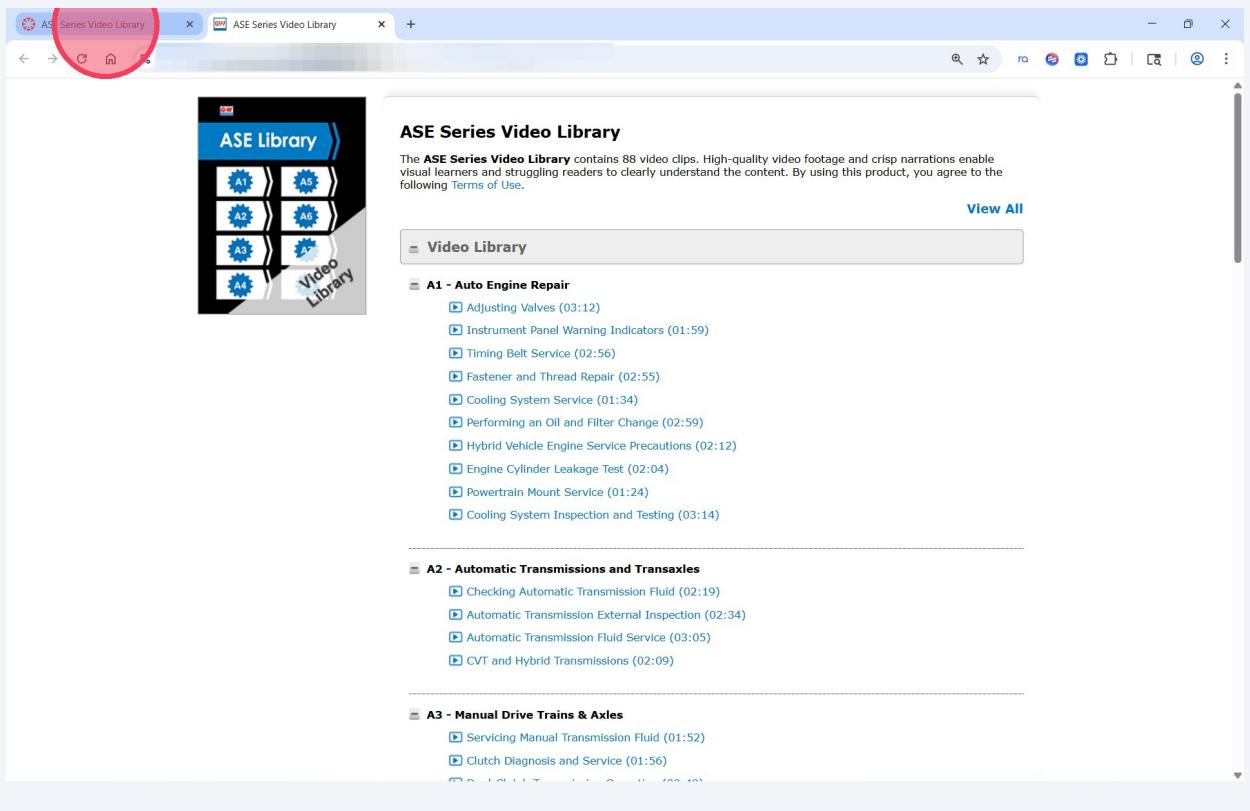
23

Other features including Pause, Volume, skipping ahead by 10 seconds or back are also available in this video player.



24

To go back to your Canvas or LMS course, select the previous tab in your browser.



The ASE Series Video Library contains 88 video clips. High-quality video footage and crisp narrations enable visual learners and struggling readers to clearly understand the content. By using this product, you agree to the following [Terms of Use](#).

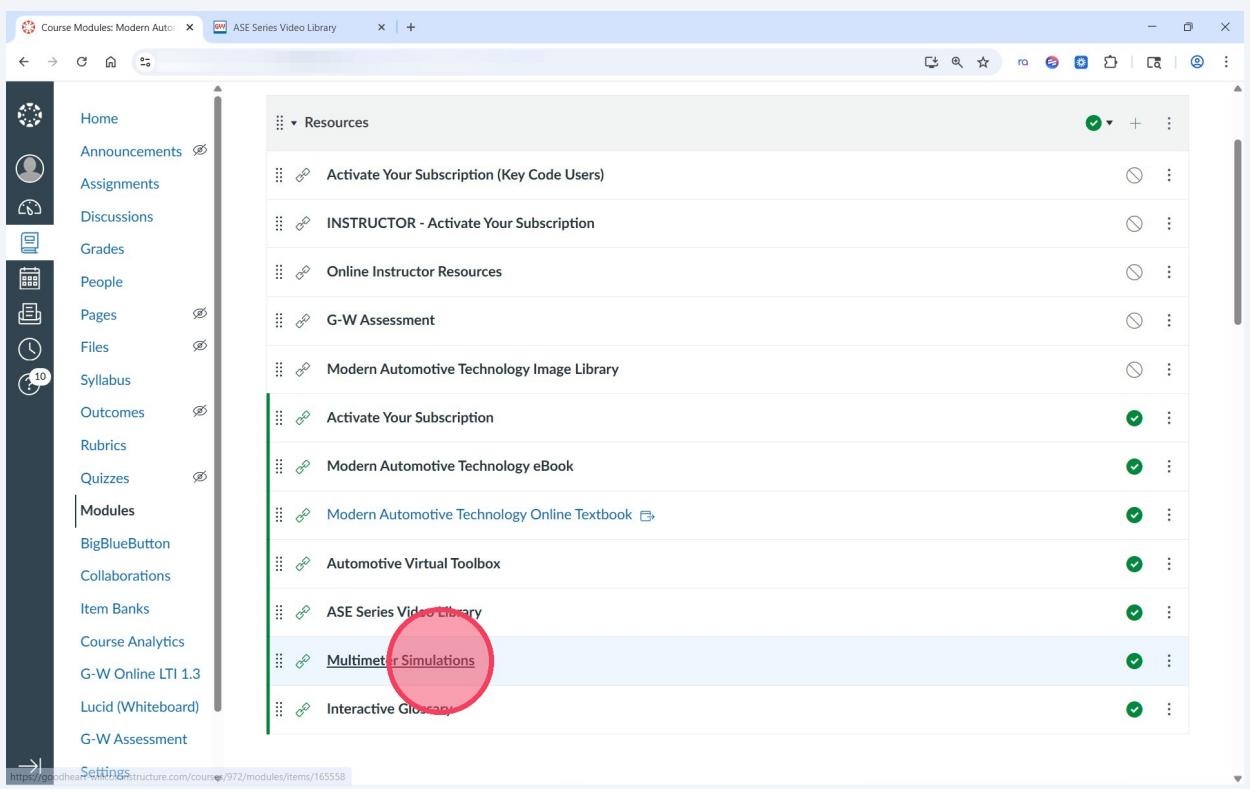
[View All](#)

Video Library

- A1 - Auto Engine Repair**
 - [Adjusting Valves \(03:12\)](#)
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- A3 - Manual Drive Trains & Axles**
 - [Servicing Manual Transmission Fluid \(01:52\)](#)
 - [Clutch Diagnosis and Service \(01:56\)](#)

25

The next **Digital Activity** available in this title is the **Multimeter Simulations**. Select the link



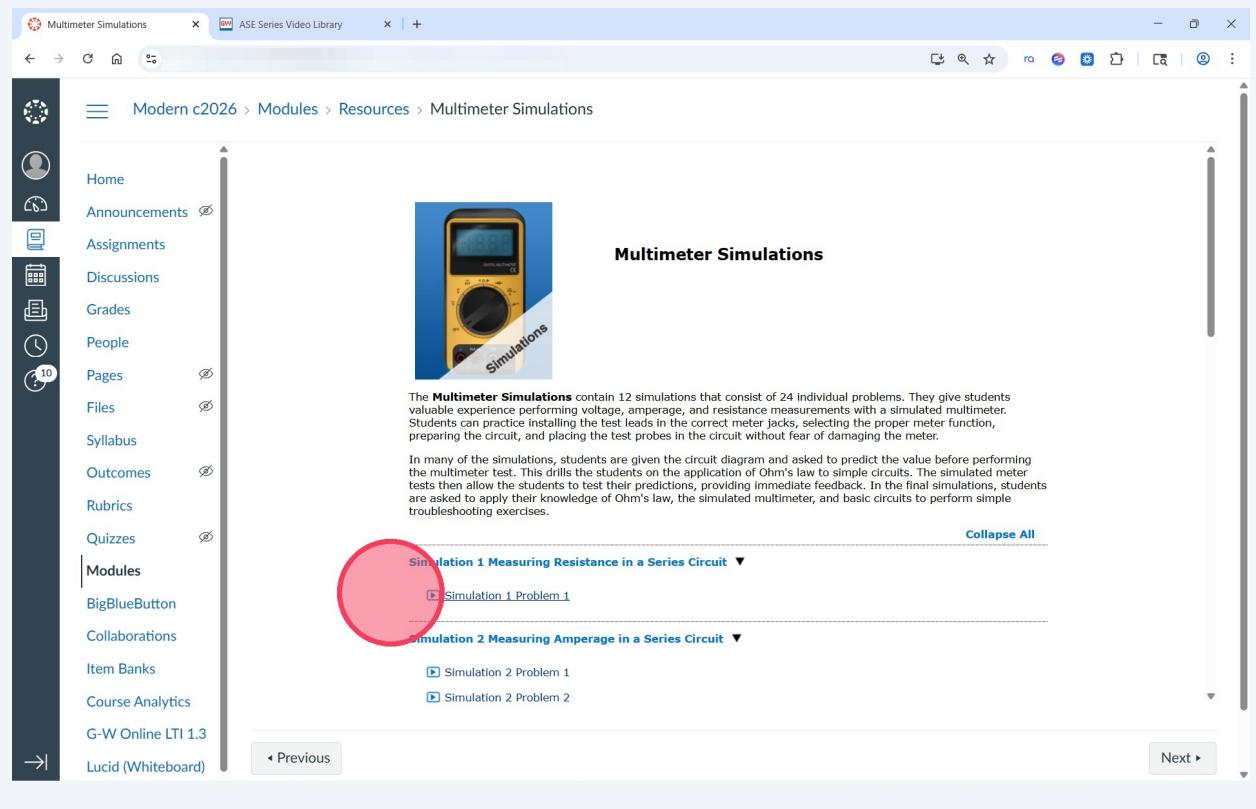
Course Modules: Modern Auto

Resources

- [Activate Your Subscription \(Key Code Users\)](#)
- [INSTRUCTOR - Activate Your Subscription](#)
- [Online Instructor Resources](#)
- [G-W Assessment](#)
- [Modern Automotive Technology Image Library](#)
- [Activate Your Subscription](#)
- [Modern Automotive Technology eBook](#)
- [Modern Automotive Technology Online Textbook](#)
- [Automotive Virtual Toolbox](#)
- [ASE Series Video Library](#)
- [**Multimeter Simulations**](#)
- [Interactive Glossary](#)

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to view 12 simulations that consist of 24 individual problems available for this task.



Multimeter Simulations

Modern c2026 > Modules > Resources > Multimeter Simulations

Home Announcements Assignments Discussions Grades People Pages Files Syllabus Outcomes Rubrics Quizzes Modules BigBlueButton Collaborations Item Banks Course Analytics G-W Online LTI 1.3 Lucid (Whiteboard)

Multimeter Simulations

The **Multimeter Simulations** contain 12 simulations that consist of 24 individual problems. They give students valuable experience performing voltage, amperage, and resistance measurements with a simulated multimeter. Students can practice installing the test leads in the correct meter jacks, selecting the proper meter function, preparing the circuit, and placing the test probes in the circuit without fear of damaging the meter.

In many of the simulations, students are given the circuit diagram and asked to predict the value before performing the multimeter test. This drills the students on the application of Ohm's law to simple circuits. The simulated meter tests then allow the students to test their predictions, providing immediate feedback. In the final simulations, students are asked to apply their knowledge of Ohm's law, the simulated multimeter, and basic circuits to perform simple troubleshooting exercises.

Simulation 1 Measuring Resistance in a Series Circuit ▾

Simulation 1 Problem 1

Simulation 2 Measuring Amperage in a Series Circuit ▾

Simulation 2 Problem 1

Simulation 2 Problem 2

Collapse All

← Previous Next →

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The first screen will provide the Objective, Instructions, and more. Select the **Next** button

Multimeter Simulations

Modern c2026 > Modules > Resources > Multimeter Simulations

G-W PUBLISHER

Measuring Resistance in a Series Circuit: Problem 1

Objective
In this problem, you will use the multimeter to measure resistance at various points in the series circuit.

Instructions
Select the correct multimeter lead locations and meter setting, and then choose the correct positions in the circuit for the probes. You can use either your mouse to drag and drop elements within the simulation or use the provided drop-down menus to operate the simulation.

Score
Each question has a possible score of 4 points. For each incorrect attempt at a question, you will lose 1 point. For example, if you answered the first question incorrectly 2 times, you would get a score of 2 points (4 possible points – 2 incorrect attempts = 2 points).

Things To Remember

- The circuit must be disconnected from the power source when resistance measurements are made.
- The formula for calculating resistance in a series circuit is $R_T = R_1 + R_2 + R_3 + \dots$

Next

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to see the Problem and view the questions. Work the problem and make your selection. Then select **Submit**.

Multimeter Simulations

Modern c2026 > Modules > Resources > Multimeter Simulations

Measuring Resistance in a Series Circuit: Problem 1

Battery
Conn... (selected)

Multimeter Red Lead
A (selected)
mA
VQ
Disconnected

Multimeter Black Lead
COM (selected)
Disconnected

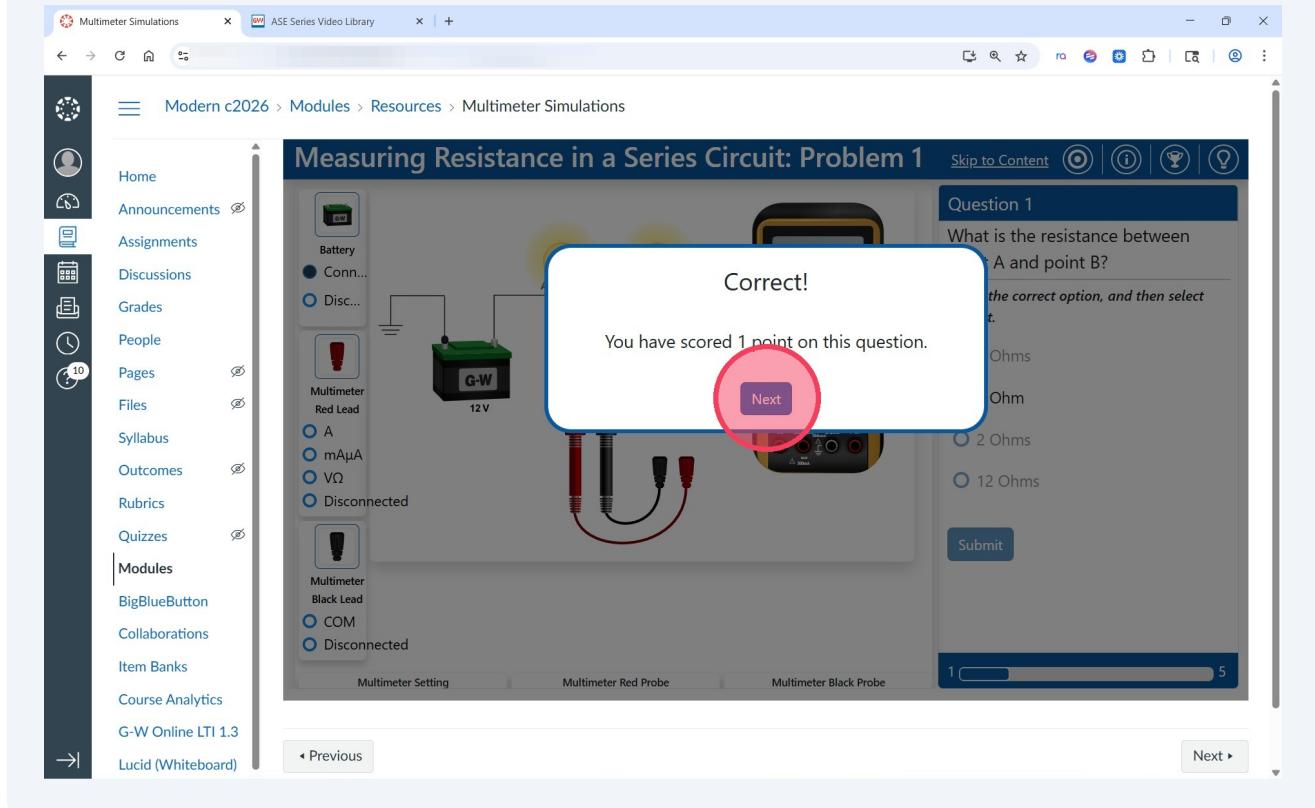
Question 1
What is the resistance between point A and point B?
Select the correct option, and then select Submit.

0 Ohms
 1 Ohm
 2 Ohms
 12 Ohms

Submit

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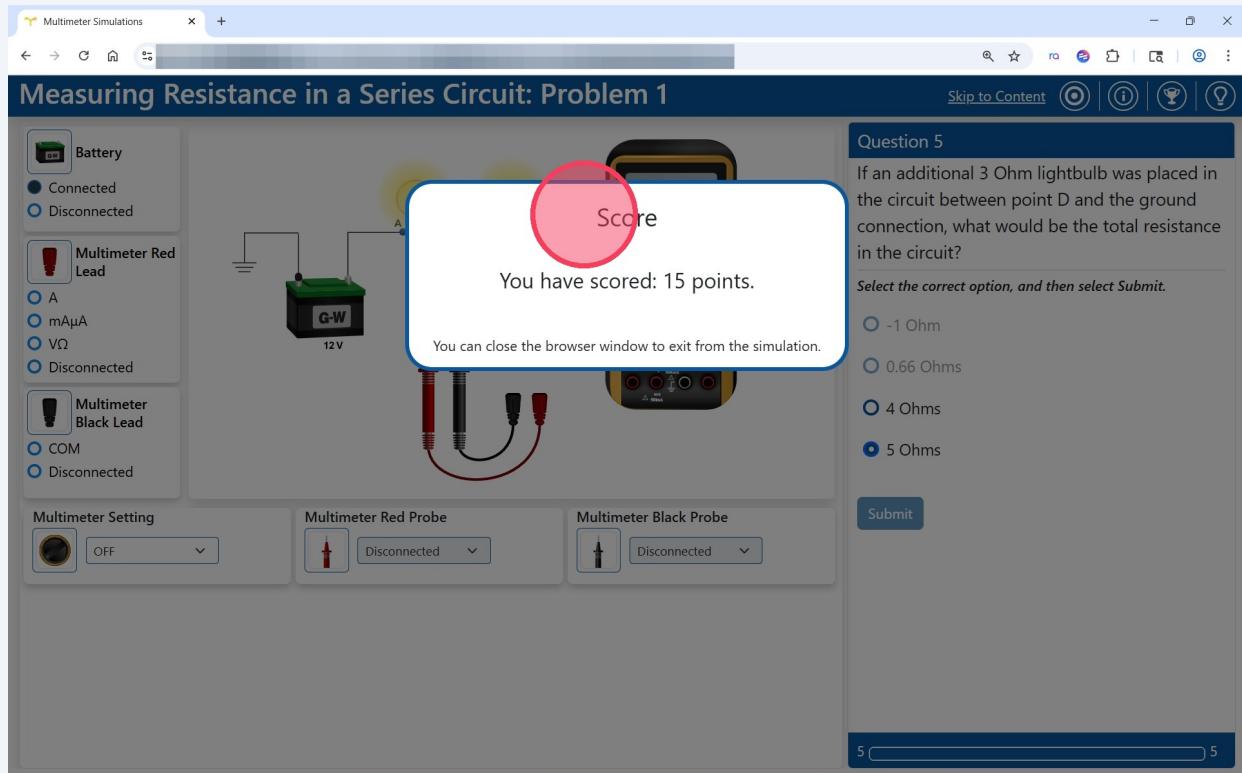
If you get a question wrong you may *Try Again*. If you get it right, you will be notified with your point value and may select the **Next** button to go to the next question.



The screenshot shows a Moodle-based multimeter simulation titled "Measuring Resistance in a Series Circuit: Problem 1". The simulation interface includes a sidebar with course navigation, a main content area with a circuit diagram and a multimeter, and a feedback box. The feedback box displays "Correct!" and "You have scored 1 point on this question." A red circle highlights the "Next" button in the feedback box. The main content area shows a 12V battery connected in series with a light bulb. A multimeter is connected across the circuit to measure resistance. The multimeter settings are set to "A" (Amperes). The feedback box is overlaid on the main content area, which also includes a question about resistance between points A and B, with options ranging from 0.1 Ohms to 12 Ohms, and a "Submit" button.

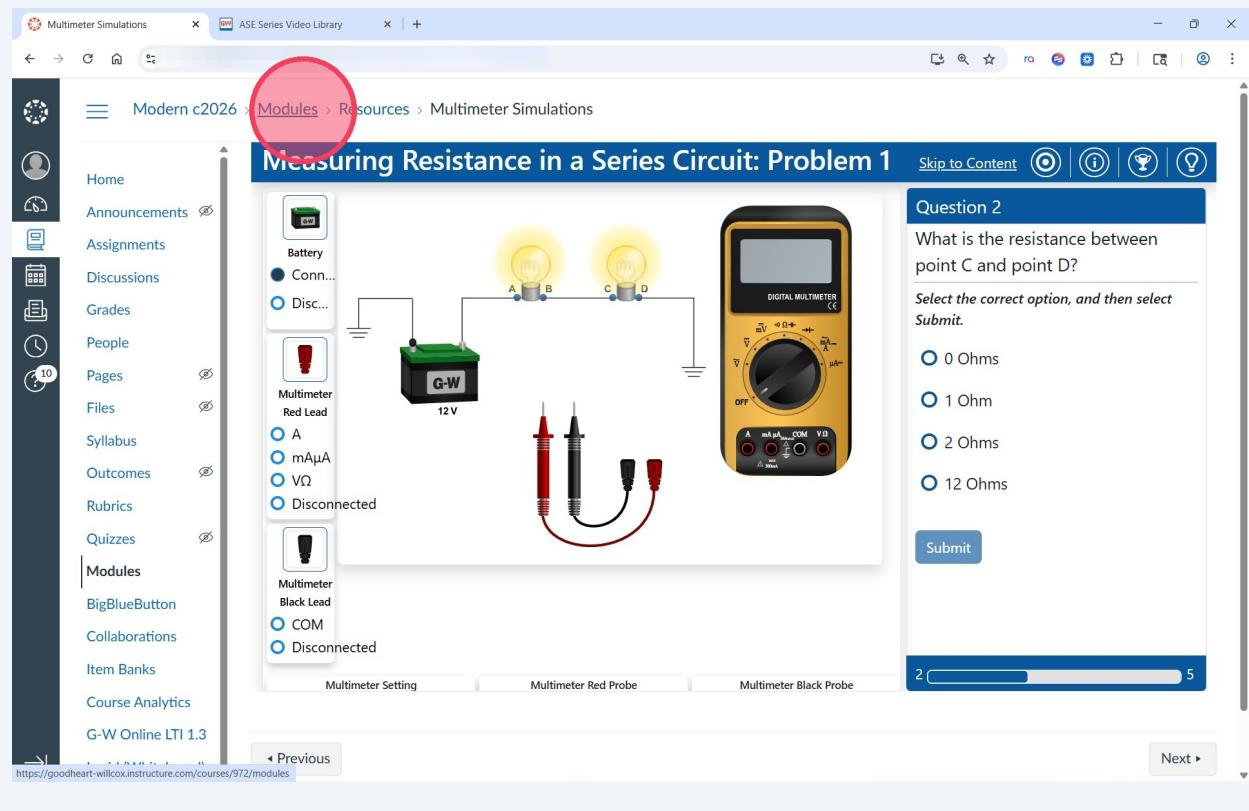
30

Once you have completed the simulation, you will be given a final score. Some instructors may choose to have students take a screen shot of their final score and submit it to them for a grade.



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Once you have completed this simulation, you may select the *Resources* or *Module* link



Modern c2026 > Modules > Resources > Multimeter Simulations

Measuring Resistance in a Series Circuit: Problem 1

What is the resistance between point C and point D?

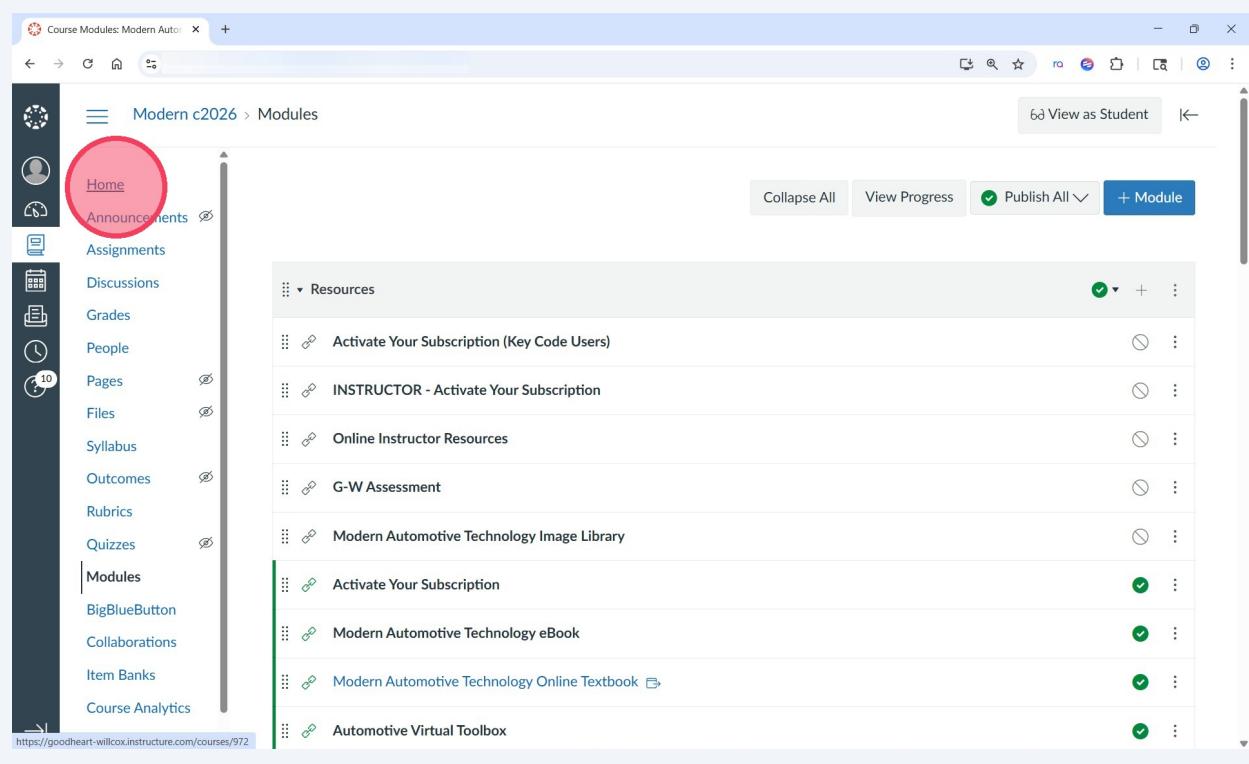
Select the correct option, and then select Submit.

0 Ohms
1 Ohm
2 Ohms
12 Ohms

Submit

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to go back to your Canvas or LMS course.



Modern c2026 > Modules

Home

Announcements

Assignments

Discussions

Grades

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

BigBlueButton

Collaborations

Item Banks

Course Analytics

G-W Online LTI 1.3

View as Student

Collapse All

View Progress

Published All

+ Module

Resources

- Activate Your Subscription (Key Code Users)
- INSTRUCTOR - Activate Your Subscription
- Online Instructor Resources
- G-W Assessment
- Modern Automotive Technology Image Library
- Activate Your Subscription
- Modern Automotive Technology eBook
- Modern Automotive Technology Online Textbook
- Automotive Virtual Toolbox