

Navigating the Modern Automotive Technology, c2026, Online Textbook 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 green), 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 'Resources' section with several items listed: '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' (with a link icon), and 'Automotive Virtual Toolbox'. Each item has a 'View Progress' button and a 'Publish All' button with a checkmark. The top right of the page has buttons for 'View as Student', 'Collapse All', 'View Progress', 'Publish All', and '+ Module'.



Please Note: Instructors must activate their subscription in their LMS before accessing G-W content in their course. Visit G-W Support for those steps.<https://support.g-w.com/home/>

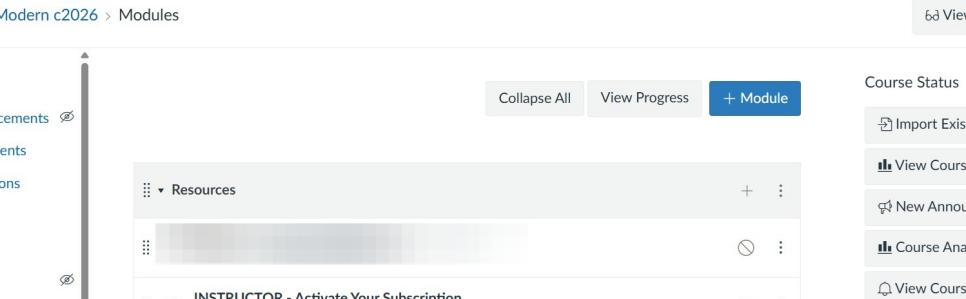
This screenshot shows the 'Modules' page in a Canvas course. The left sidebar lists various course sections like Home, Announcements, Assignments, etc. The main content area is titled 'Resources' and contains several items. One item, 'INSTRUCTOR - Activate Your Subscription', is highlighted with a red box. Other items include '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 green checkmark and a more options menu.

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

This screenshot shows the 'Modules' page in a Canvas course. The left sidebar lists various course sections like Home, Announcements, Assignments, etc. The main content area is titled 'Resources' and contains several items. One item, 'INSTRUCTOR - Activate Your Subscription', is highlighted with a red circle. Other items include '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'. A 'Published' button is visible at the bottom of the list. The URL at the bottom of the page is <https://goodheart-willcox.instructure.com/courses/972>.

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 Microsoft Teams interface for a course titled "Modern c2026". The left sidebar has a dark theme with icons for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules (which is highlighted with a red circle), BigBlueButton, Collaborations, Item Banks, Course Analytics, and G-W Online LTI 1.3. The main content area shows a "Modules" section with a "Resources" list. The resources include "INSTRUCTOR - Activate Your Subscription", "Online Instructor Resources", "G-W Assessment", "Modern Automotive Technology Image Library", "Activate Your Subscription", "Modern Automotive Technology eBook", and "Modern Automotive Technology Online Textbook". The "Course Status" sidebar on the right shows "Import Existing Content", "View Course Stream", "New Announcement", "Course Analytics", "View Course Notifications", and a "Coming Up" section indicating "Nothing for the next week".

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

Resources

- 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

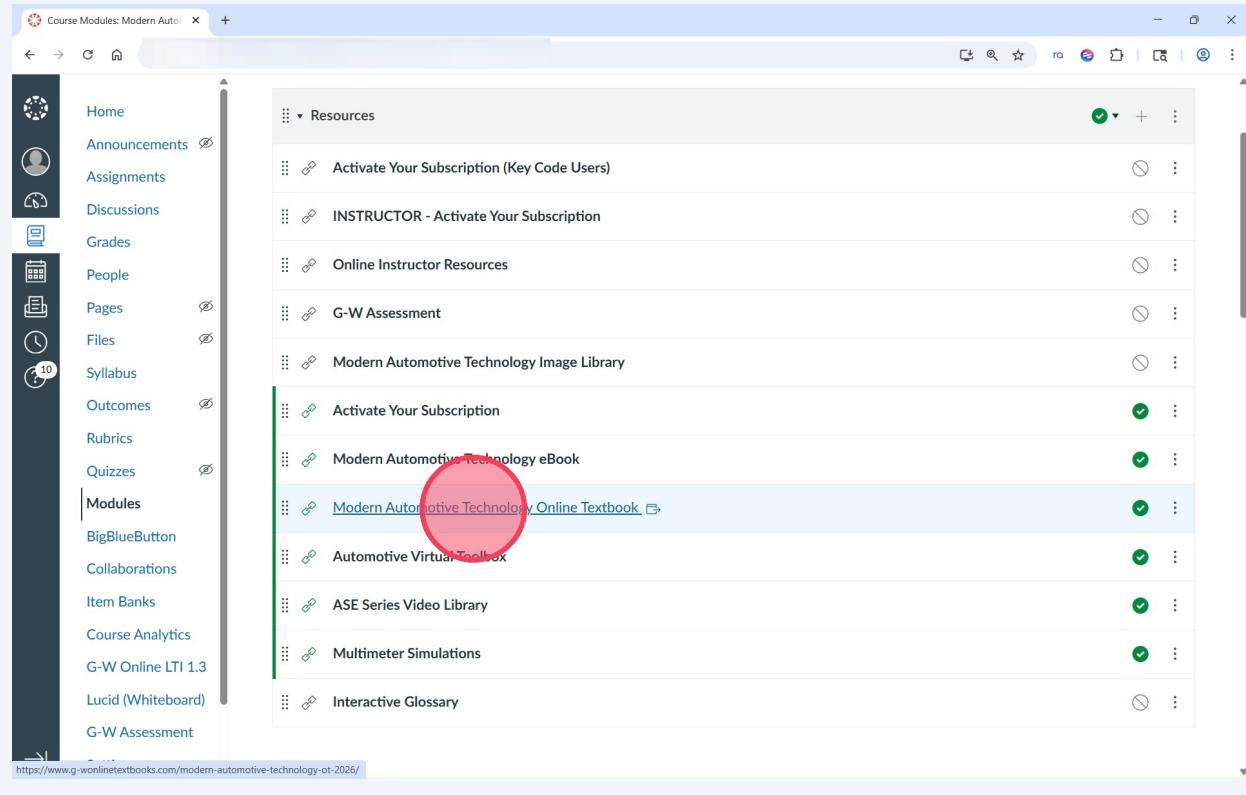
Course Status

- Import Existing Content
- View Course Stream
- New Announcement
- Course Analytics
- View Course Notifications

Coming Up

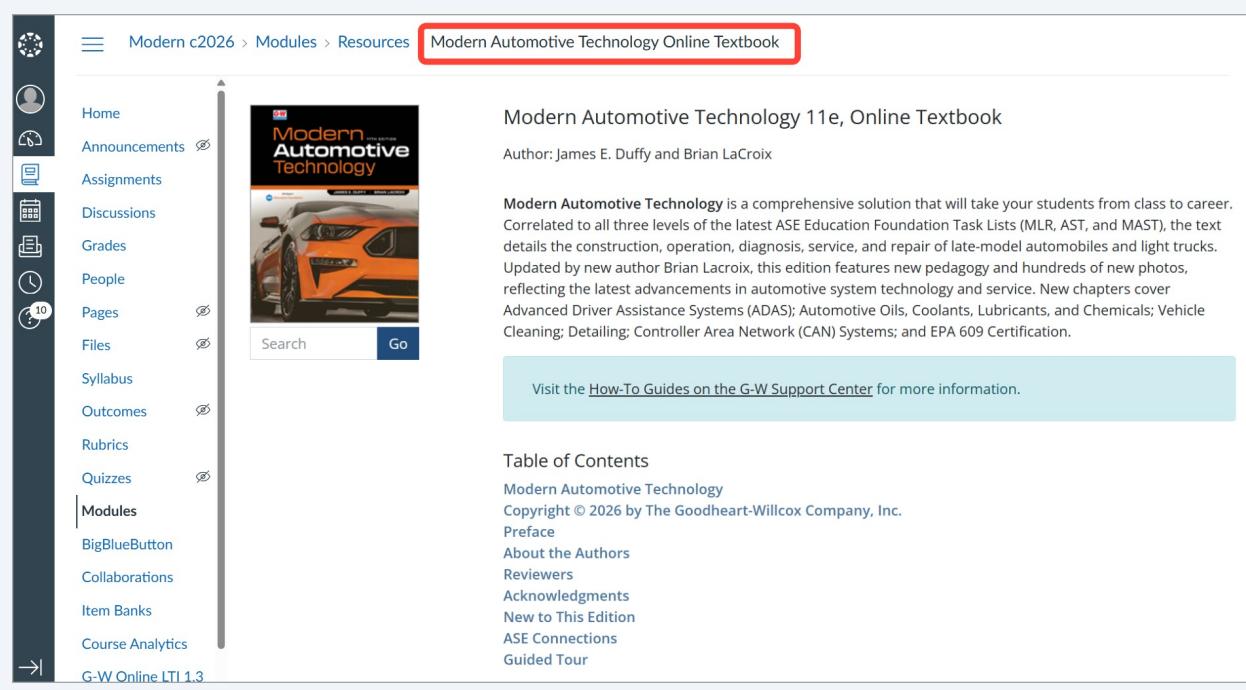
Nothing for the next week

3 Select the *Modern Automotive Technology Online Textbook* link to view the online textbook.



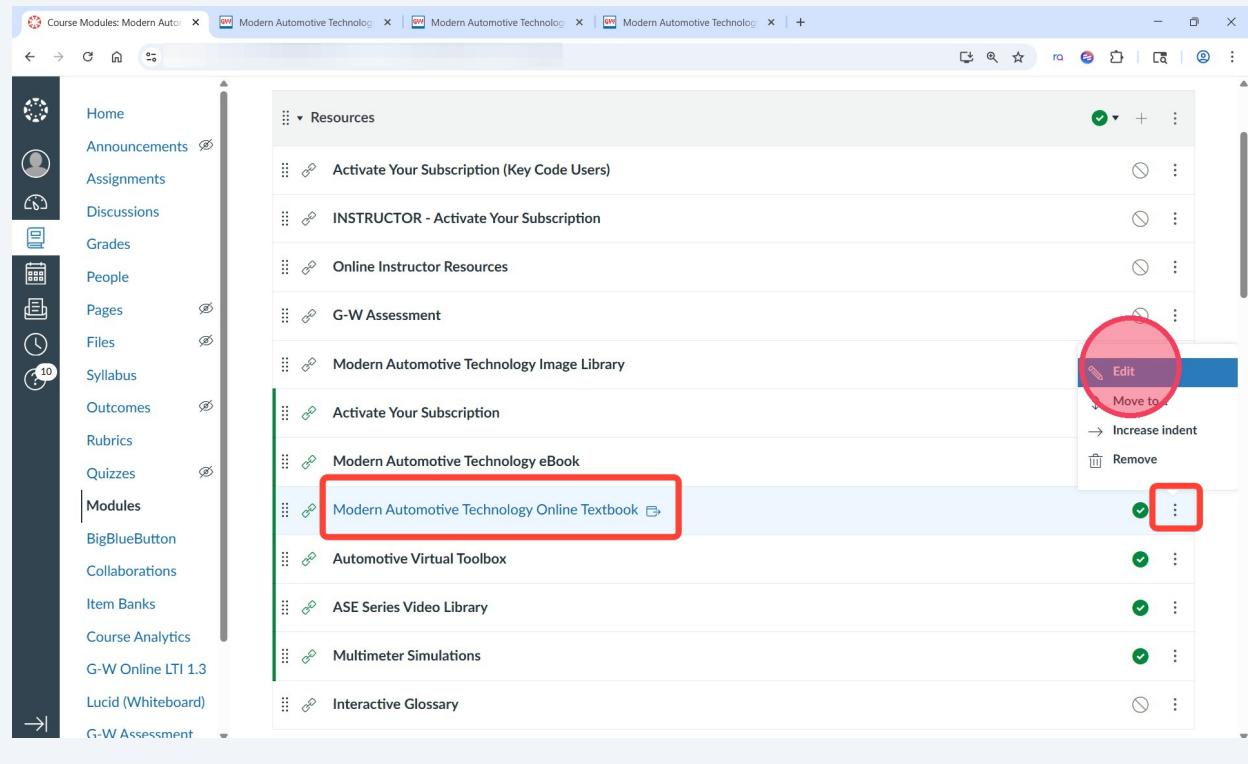
The screenshot shows a LMS interface with a sidebar on the left containing various course modules like Home, Announcements, Assignments, etc. The 'Resources' section is expanded, showing links such as 'Activate Your Subscription (Key Code Users)', 'INSTRUCTOR - Activate Your Subscription', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook', 'Modern Automotive Technology Online Textbook' (which is highlighted with a red circle), 'Automotive Virtual Toolbox', 'ASE Series Video Library', 'Multimeter Simulations', and 'Interactive Glossary'. The URL in the address bar is <https://www.g-wonlinetextbooks.com/modern-automotive-technology-pt-2026/>.

4 You may notice that the textbook opens within the iframe of your LMS



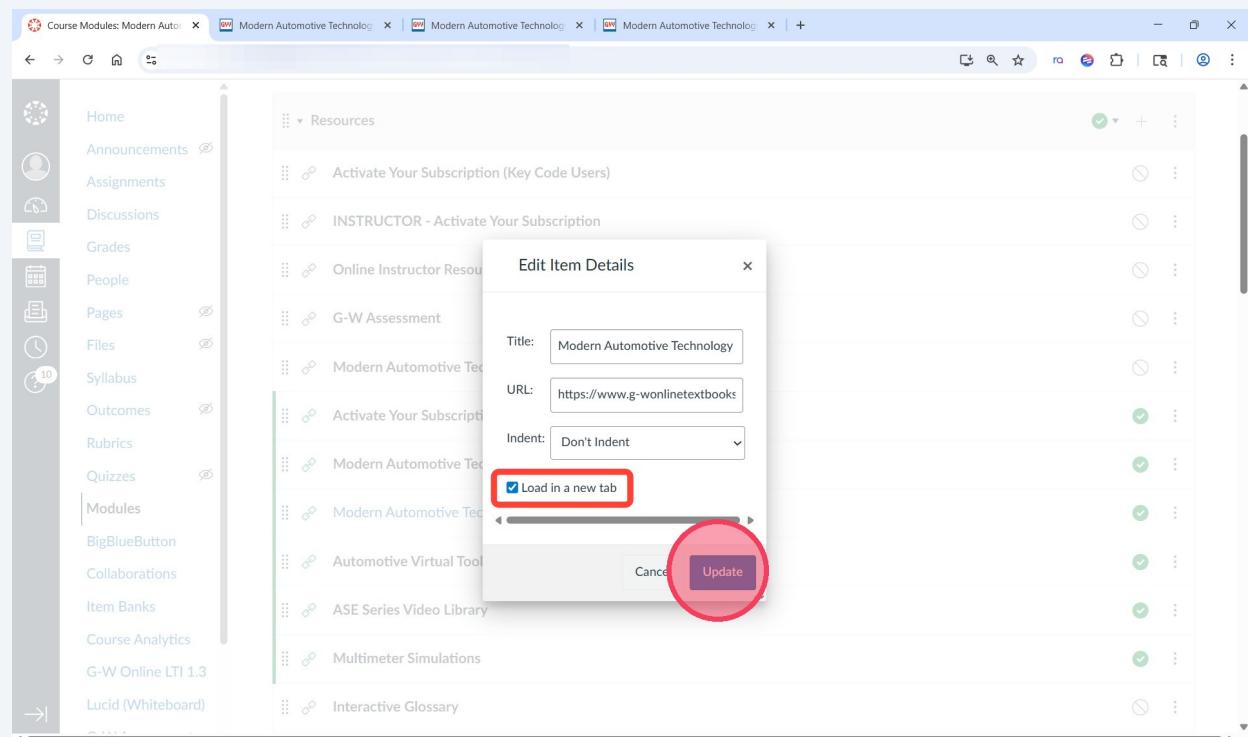
The screenshot shows the 'Modern Automotive Technology 11e, Online Textbook' page. The page title is 'Modern Automotive Technology 11e, Online Textbook' and it is authored by James E. Duffy and Brian LaCroix. The page summary states: 'Modern Automotive Technology is a comprehensive solution that will take your students from class to career. Correlated to all three levels of the latest ASE Education Foundation Task Lists (MLR, AST, and MAST), the text details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. Updated by new author Brian Lacroix, this edition features new pedagogy and hundreds of new photos, reflecting the latest advancements in automotive system technology and service. New chapters cover Advanced Driver Assistance Systems (ADAS); Automotive Oils, Coolants, Lubricants, and Chemicals; Vehicle Cleaning; Detailing; Controller Area Network (CAN) Systems; and EPA 609 Certification.' Below this is a callout box with the text: 'Visit the [How-To Guides on the G-W Support Center](#) for more information.' The sidebar on the left is identical to the one in the previous screenshot, showing various course modules.

5 but if you want it to open in a *new tab* to enhance your viewing experience, please select the 3 dots next to the *Online Textbook* link and select **Edit**.



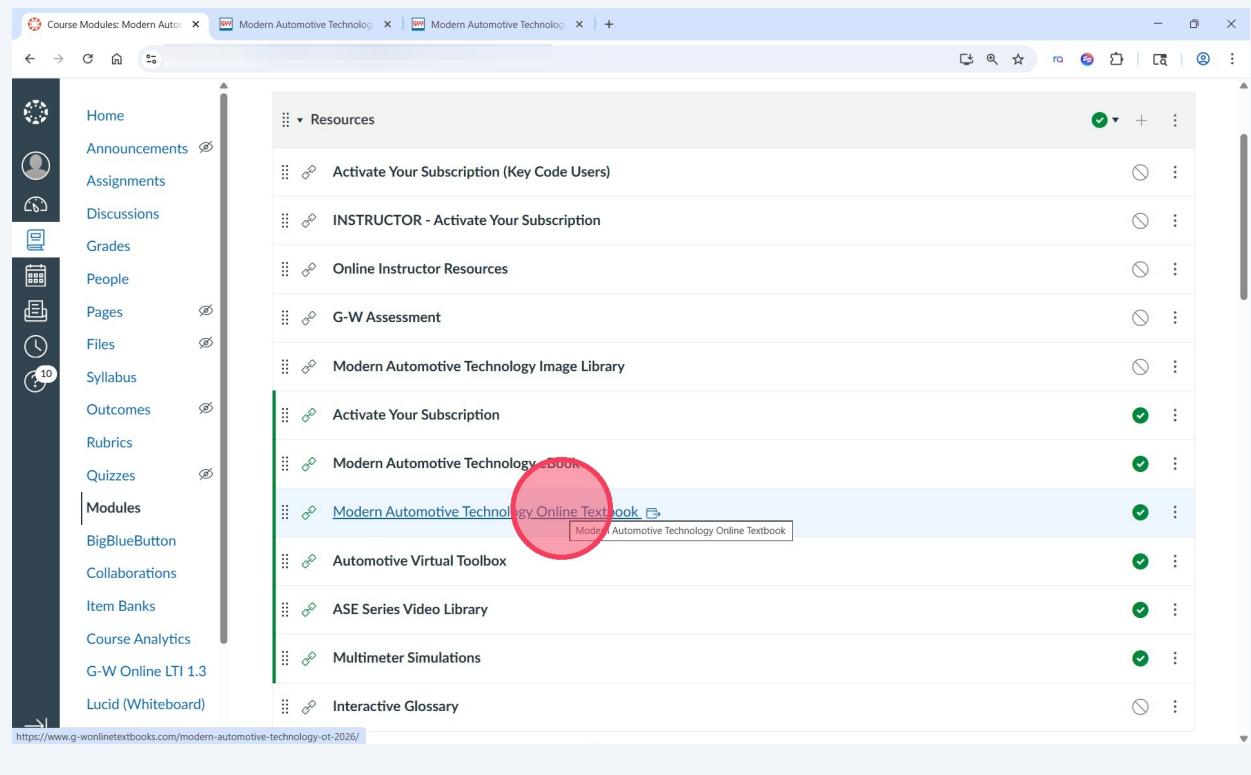
The screenshot shows a course management system interface. On the left is a sidebar with various navigation links. The main area is titled 'Resources' and lists several items. One item, 'Modern Automotive Technology Online Textbook', is highlighted with a red box. A context menu is open over this item, with the 'Edit' option circled in red. Other options in the menu include 'Move to', 'Increase indent', and 'Remove'.

6 Check the box which reads *Load in a new tab* and select **Update**.



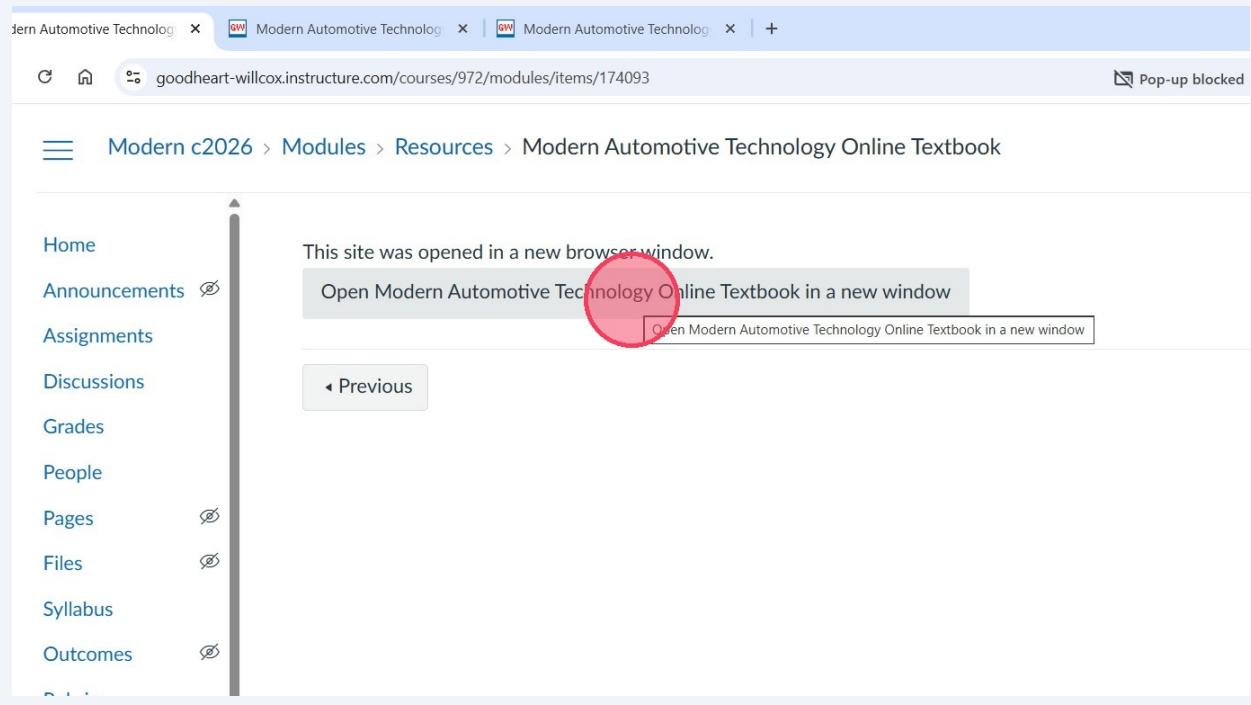
The screenshot shows the 'Edit Item Details' dialog box. It contains fields for 'Title' (Modern Automotive Technology), 'URL' (https://www.g-wonlinetextbooks), and 'Indent' (Don't Indent). A checkbox labeled 'Load in a new tab' is checked and circled in red. At the bottom right of the dialog is a large red circle around the 'Update' button.

7 Now after selecting the *Online Textbook* link



The screenshot shows a web browser with three tabs open. The left sidebar contains links 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 main content area is titled 'Resources' and lists several items: '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 E-BOOK', 'Modern Automotive Technology Online Textbook' (this link is highlighted with a red circle and a red box), 'Automotive Virtual Toolbox', 'ASE Series Video Library', 'Multimeter Simulations', and 'Interactive Glossary'. The URL in the address bar is <https://www.g-wonlinetextbooks.com/modern-automotive-technology-ot-2026/>.

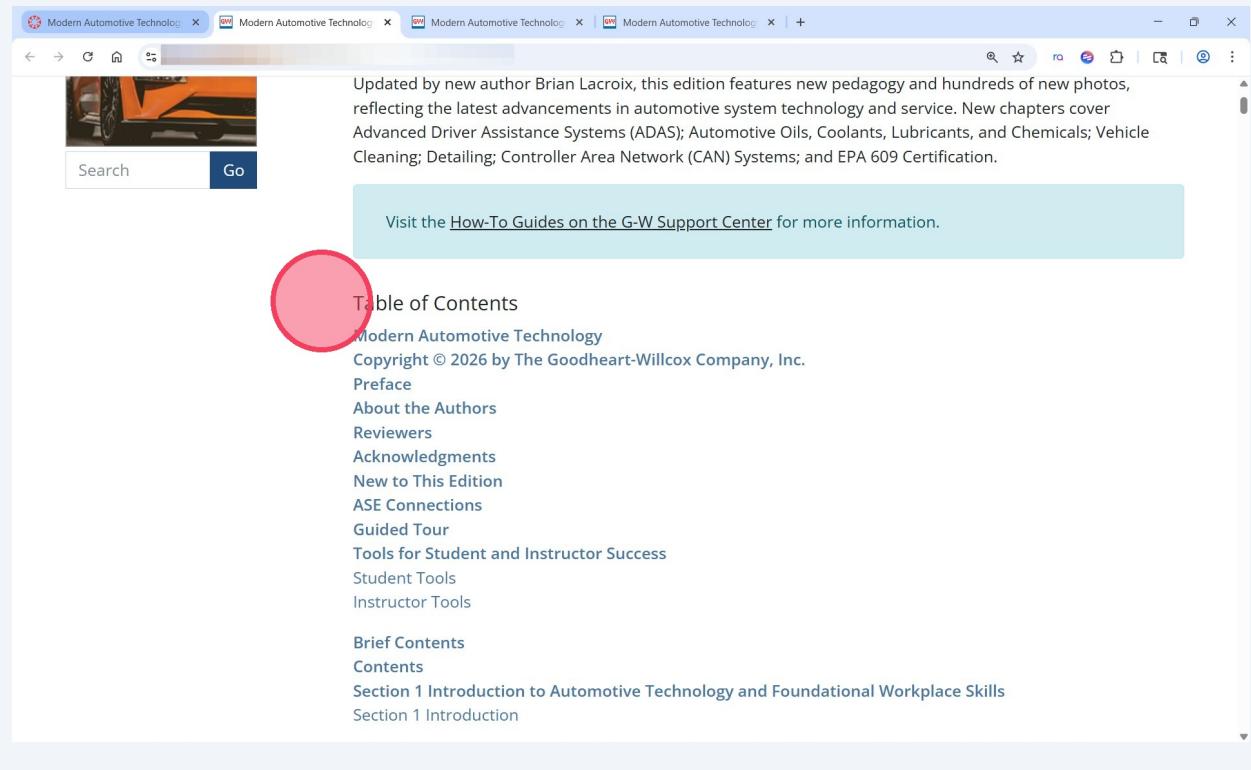
8 you'll see the option to open the textbook in a new window. Select that button



The screenshot shows a web browser with three tabs open. The left sidebar contains links for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, and a 'Modules' section. The main content area shows the path: 'Modern c2026 > Modules > Resources > Modern Automotive Technology Online Textbook'. A message says 'This site was opened in a new browser window.' Below it is a button labeled 'Open Modern Automotive Technology Online Textbook in a new window' (this button is highlighted with a red circle and a red box). At the bottom of the page is a 'Previous' button. The URL in the address bar is goodheart-willcox.instructure.com/courses/972/modules/items/174093.

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and a new tab will open with a full size view of the online textbook. You will see the **Table of Contents**



The screenshot shows a web browser with four tabs, all titled 'Modern Automotive Technology'. The main content area displays the Table of Contents for the book. At the top, there is a brief description: 'Updated by new author Brian Lacroix, this edition features new pedagogy and hundreds of new photos, reflecting the latest advancements in automotive system technology and service. New chapters cover Advanced Driver Assistance Systems (ADAS); Automotive Oils, Coolants, Lubricants, and Chemicals; Vehicle Cleaning; Detailing; Controller Area Network (CAN) Systems; and EPA 609 Certification.' Below this is a button with the text 'Visit the [How-To Guides on the G-W Support Center](#) for more information.' A large red circle highlights the 'Table of Contents' link in the main menu.

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Modern Automotive Technology

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Preface

About the Authors

Reviewers

Acknowledgments

New to This Edition

ASE Connections

Guided Tour

Tools for Student and Instructor Success

Student Tools

Instructor Tools

Brief Contents

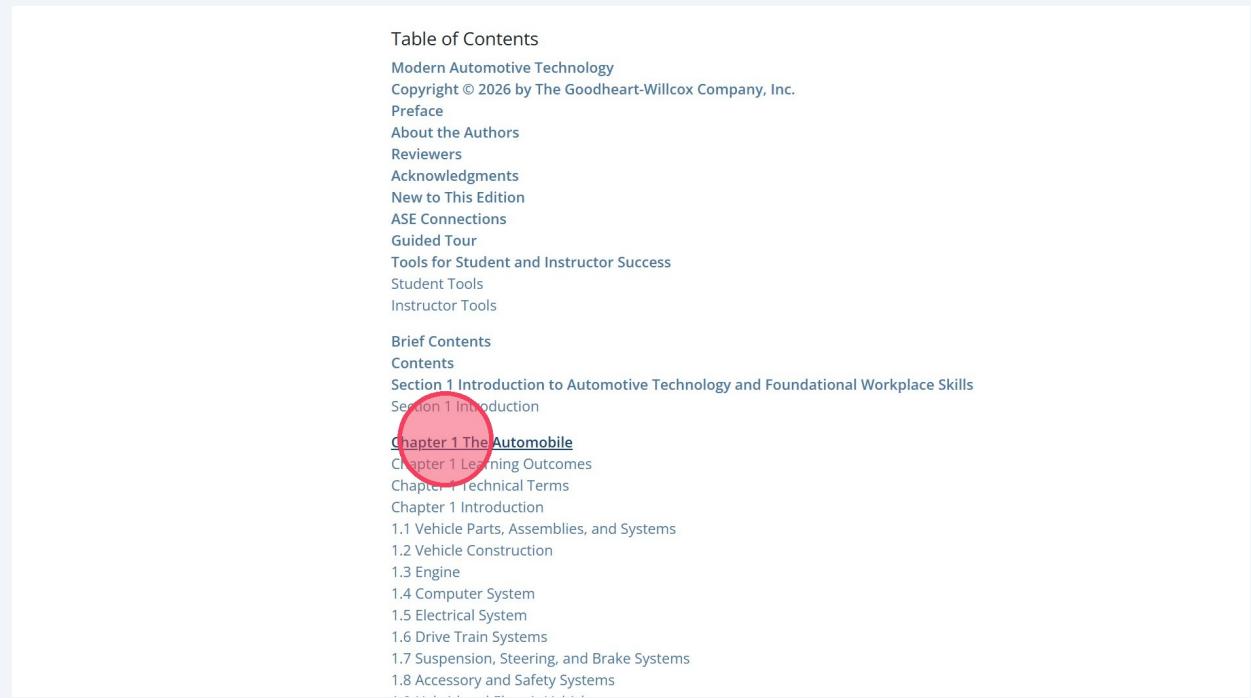
Contents

Section 1 Introduction to Automotive Technology and Foundational Workplace Skills

Section 1 Introduction

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and may scroll down to find a chapter of choice and select the link.



The screenshot shows the 'Table of Contents' page with a red circle highlighting the 'Chapter 1 The Automobile' link. The page lists the following chapters and sections:

Table of Contents

Modern Automotive Technology

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Preface

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Contents

Section 1 Introduction to Automotive Technology and Foundational Workplace Skills

Section 1 Introduction

Chapter 1 The Automobile

Chapter 1 Learning Outcomes

Chapter 1 Technical Terms

Chapter 1 Introduction

1.1 Vehicle Parts, Assemblies, and Systems

1.2 Vehicle Construction

1.3 Engine

1.4 Computer System

1.5 Electrical System

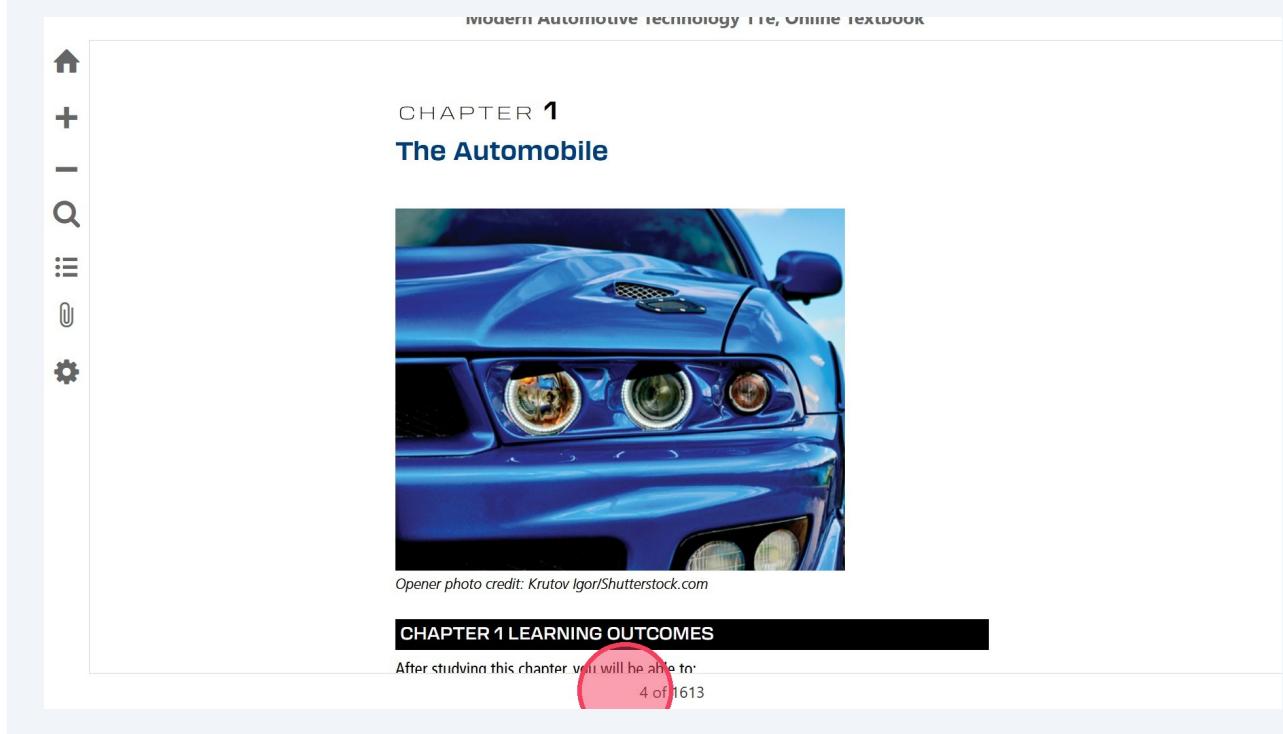
1.6 Drive Train Systems

1.7 Suspension, Steering, and Brake Systems

1.8 Accessory and Safety Systems

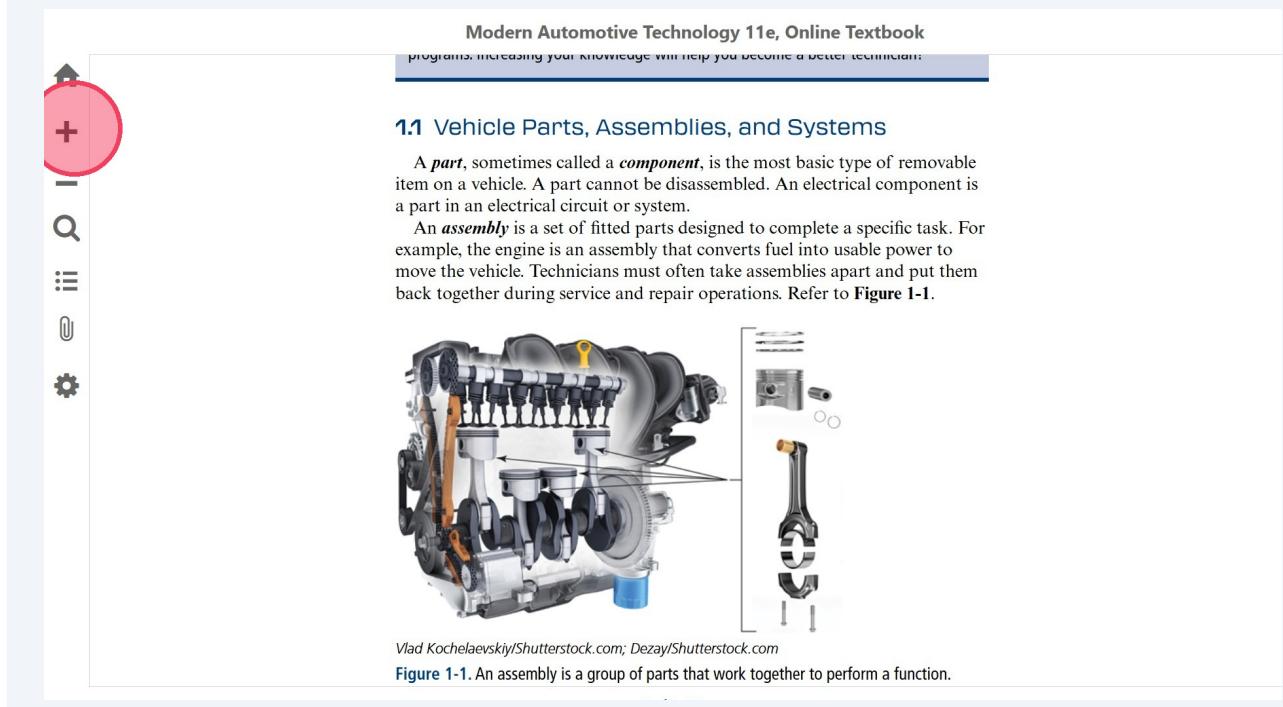
11 Look at the bottom of the screen to see which page you are currently viewing.

MODERN AUTOMOTIVE TECHNOLOGY 11e, ONLINE TEXTBOOK



12 On the left-hand side of the screen you will find a few textbook features. First, you may **Zoom In** by selecting the plus sign.

Modern Automotive Technology 11e, Online Textbook



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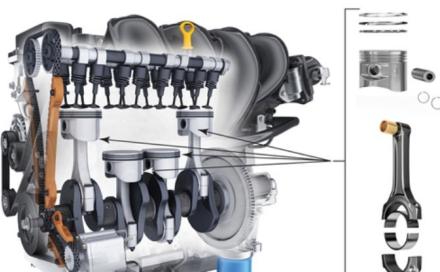
Next, you may **Zoom Out** by selecting the minus sign.



1.1 Vehicle Parts, Assemblies, and Systems

A **part**, sometimes called a **component**, is the most basic type of removable item on a vehicle. A part cannot be disassembled. An electrical component is a part in an electrical circuit or system.

An **assembly** is a set of fitted parts designed to complete a specific task. For example, the engine is an assembly that converts fuel into usable power to move the vehicle. Technicians must often take assemblies apart and put them back together during service and repair operations. Refer to **Figure 1-1**.



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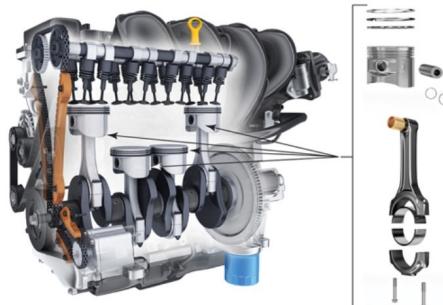
The magnifying glass allows you to conduct a page or keyword search.



1.1 Vehicle Parts, Assemblies, and Systems

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Vlad Kochelaevskiy/Shutterstock.com; Dezay/Shutterstock.com

Figure 1-1. An assembly is a group of parts that work together to perform a function.

15 Enter a keyword you'd like to search for in the search box and select Go.

Modern Automotive Technology 11e, Online Textbook

Use advanced search

Enter text or page...

vehicle Parts, Assemblies, and Systems

Part, sometimes called a **component**, is the most basic type of removable part of a vehicle. A part cannot be disassembled. An electrical component is an electrical circuit or system.

Assembly is a set of fitted parts designed to complete a specific task. For example, the engine is an assembly that converts fuel into usable power to move the vehicle. Technicians must often take assemblies apart and put them together during service and repair operations. Refer to **Figure 1-1**.

helaevskiy/Shutterstock.com; Dezay/Shutterstock.com

Figure 1-1. An assembly is a group of parts that work together to perform a function.

16 The search results will appear. Select the page of interest to hyperlink to that page.

Modern Automotive Technology 11e, Online Textbook

Vehicle (P)HEV, regenerative braking, rotor sensor series hybrid series-parallel hybrid three-phase ac power

Many of today's vehicles incorporate a high-voltage power supply to assist the drive system. It can be the primary source of power for the vehicle, as in a battery **electric** vehicle, or it can...

... After studying this chapter, you will be able to: 80.1 Recall the safety measures that must be followed when working on high-voltage, high-current electric drive systems. 80.2 Use onboard diagnostics to locate problems in hybrid **electric** and **battery electric** drive systems. 80.3 Service hybrid and battery **electric** vehicle components. 80.4 Identify HV charging system concerns, contactor insulating gloves insulated tool. Since hybrid **electric vehicles (HEVs)** and **battery electric vehicles (BEVs)** are now produced and sold by many automakers, it is important that you understand how to service them safely. The service methods you learned in previous chapters also apply to hybrid and battery **electric** vehicles. The primary concern when working on a high-voltage (HV) drive train is the extremely high voltage and current stored and generated by the **electric** drive devices and circuits. You must learn how to work safely with up to 600 volts of alternating current (ac).

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vehicle Parts, Assemblies, and Systems

Part, sometimes called a **component**, is the most basic type of removable part of a vehicle. A part cannot be disassembled. An electrical component is an electrical circuit or system.

Assembly is a set of fitted parts designed to complete a specific task. For example, the engine is an assembly that converts fuel into usable power to move the vehicle. Technicians must often take assemblies apart and put them together during service and repair operations. Refer to **Figure 1-1**.

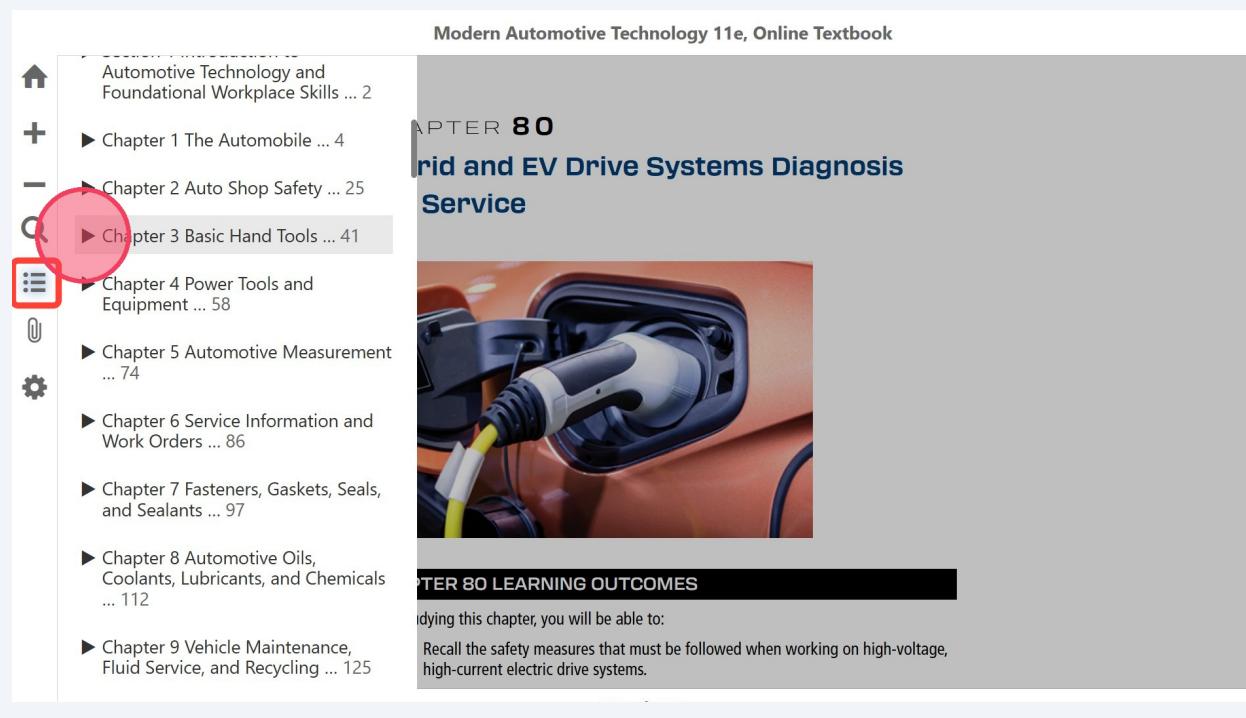
helaevskiy/Shutterstock.com; Dezay/Shutterstock.com

Figure 1-1. An assembly is a group of parts that work together to perform a function.

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The bullet point icon is the **Table of Contents** which users may view to jump to another section of the book if they choose.

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CHAPTER 80

Hybrid and EV Drive Systems Diagnosis Service



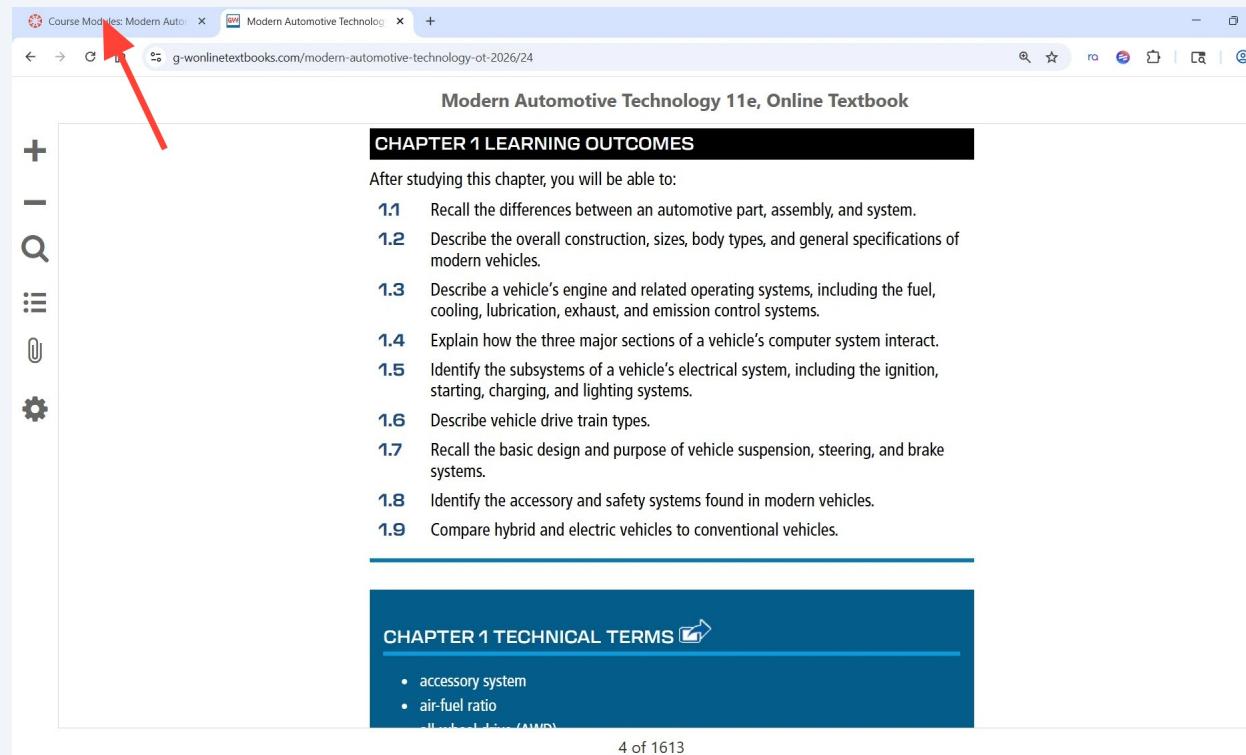
CHAPTER 80 LEARNING OUTCOMES

After studying this chapter, you will be able to:

Recall the safety measures that must be followed when working on high-voltage, high-current electric drive systems.

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Once you are ready to go back to your Canvas course, you may select the previous tab to get back to your course.



Course Modules: Modern Auto ... Modern Automotive Technolog ... +

Modern Automotive Technology 11e, Online Textbook

CHAPTER 1 LEARNING OUTCOMES

After studying this chapter, you will be able to:

- 1.1 Recall the differences between an automotive part, assembly, and system.
- 1.2 Describe the overall construction, sizes, body types, and general specifications of modern vehicles.
- 1.3 Describe a vehicle's engine and related operating systems, including the fuel, cooling, lubrication, exhaust, and emission control systems.
- 1.4 Explain how the three major sections of a vehicle's computer system interact.
- 1.5 Identify the subsystems of a vehicle's electrical system, including the ignition, starting, charging, and lighting systems.
- 1.6 Describe vehicle drive train types.
- 1.7 Recall the basic design and purpose of vehicle suspension, steering, and brake systems.
- 1.8 Identify the accessory and safety systems found in modern vehicles.
- 1.9 Compare hybrid and electric vehicles to conventional vehicles.

CHAPTER 1 TECHNICAL TERMS

- accessory system
- air-fuel ratio
- all-wheel drive (AWD)

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