

Student Guide

New to CDX? Use this guide to get started.

Question 2
Not yet answered
Marked out of 1

Flag question
Edit question

Which type of engine is shown in the image?

- a. Horizontally opposed engine
- b. Inline engine
- c. Rotary engine
- d. V8 engine

Using a Vacuum Gauge

Cylinder Power Balance

Running Compression Test

Engine Mechanical Testing V1

Engine Mechanical Testing V2

Cranking Compression Test

CDX Learning Systems™

FUNDAMENTALS OF
Automotive Technology

Principles and Practice **THIRD EDITION**

CDX Learning Systems™

FUNDAMENTALS OF
Medium/Heavy Duty Commercial Vehicle Systems

SECOND EDITION

CDX Learning Systems™

FUNDAMENTALS OF
Medium/Heavy Duty Diesel Engines

SECOND EDITION

CDX Learning Systems™

FUNDAMENTALS OF
Mobile Heavy Equipment



CDX is organized into courses. On the Home page, each course is displayed in a box with a picture and a link to the course.

Before you can access a course, you need to be enrolled in it. Some courses may have self-enrollment, others don't. Ask your instructor for help.

Category name

Course name

Topic name

Resource name



You can search and sort

You can change how this list looks like

If you are in many courses, be sure to click here



Expand or collapse side menu

Expand or collapse course menu

Expand or collapse course chapters

Courses are organized into chapters. If you have the book, the chapters are the same.

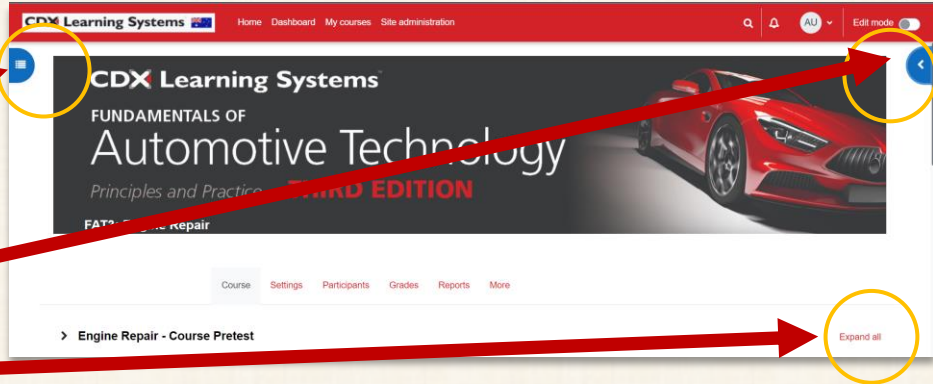
Expanding a topic makes resources and quizzes visible.

The screenshot shows the course page for 'CDX Learning Systems FUNDAMENTALS OF Automotive Technology, Principles and Practice, THIRD EDITION, FAT3: Safety and Foundation'. The page features a red header with navigation links (Home, Dashboard, My courses), a search bar, and a notification bell. The main content area has a dark banner with the course title and a red sports car image. Below the banner are tabs for 'Course', 'Participants', 'Grades', 'Reports', 'Badges', and 'More'. A list of course topics is shown with expandable arrows and an 'Expand all' link. The topics are: 'General', 'Safety and Foundation - Course Pretest', 'Chapter 1 Careers in Automotive Technology', and 'Chapter 1 Additional Resources' (marked as 'Hidden from students'). A help icon is visible in the bottom right corner.

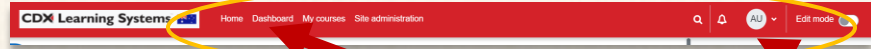


Navigation – How to get around

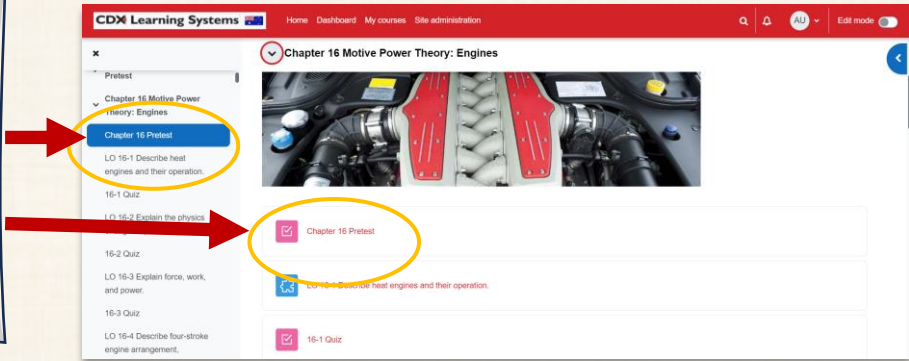
To keep things tidy, some menus are hidden. Click the blue tabs and Expand all to open or close the menus.



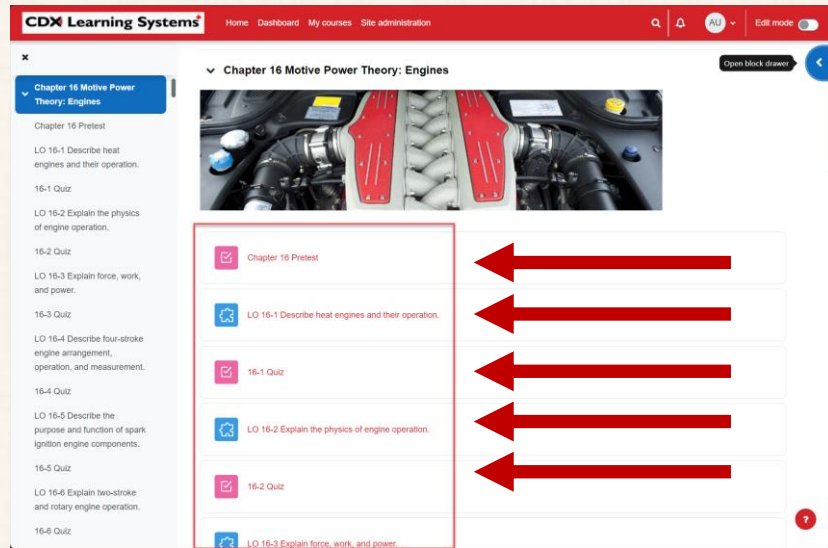
The top menu is always available. You can go to Home, Dashboard, My courses, personal preferences and more.



You can go thru the course using the menu on the left. It will highlight the top activity in blue.



You access readings, quizzes, videos and ebooks and more from the middle of the course.





LO 1-1 Outline the history of the automobile.

Search allows you to quickly find things without having to browse.

You can print some pages to pdf.

You can set some bookmarks to find things when you come back.

You can have the book read to you. Make sure your audio is on.

You can view in full screen

Everything is organized into chapters.

You can write short notes into the My Stuff area to help your learning.

You can jump around quickly by flipping thru pages or entering page numbers

FAT 3e: ASE 0 Safety and Foundation

Search

Contents

My Stuff

LO 1-1 OUTLINE THE HISTORY OF THE AUTOMOBILE.

Introduction

The automotive industry offers many opportunities for people to pursue rewarding careers of their choice. These include everything from technician positions, to sales, to management, to engineering, to racing. There is something of interest to just about everybody. And don't worry—if you get tired of one job, you can transition to one of the others.

In this chapter, we will begin by outlining the history of the automobile. This will give you some background on how the industry progressed. We will then describe some of the main jobs at a typical shop. Next, we will discuss the five primary types of shops and their pros and cons. Last, we will cover the industry certification requirements and the importance of ongoing training. Now sit back and explore the world of automotive technology!

A Brief History of the Automobile

Early vehicles were basic machines. Drivers started the vehicles' engines by manually operating a crank handle. These vehicles also needed almost continual tinkering and maintenance. As vehicle technology developed, the maintenance requirements evolved as well ([FIGURE 1-1](#)). Early vehicles had many of the same basic systems as today's vehicles. These include the engine, ignition, cooling, lubrication, suspension, and drivetrain. However, the systems on modern vehicles are much more sophisticated and reliable. This means that modern vehicles travel much farther between maintenance visits than earlier models. As opposed to visits every 1000 miles, today's vehicles are serviced every 7500 to 10,000 miles. In a few years, it could be up to 25,000 miles between scheduled services.

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To start a quiz, click on Attempt quiz

Read the questions carefully and check the boxes.

You can pick any question you like in any order.

Be sure to click Finish attempt.

You can see your grades by clicking Grades

Return to attempt

Submit all and finish

You may see a Submit all and finish. This will finish the quiz for you.

