

Product Overview

New to CDX? Use this guide to get started.

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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



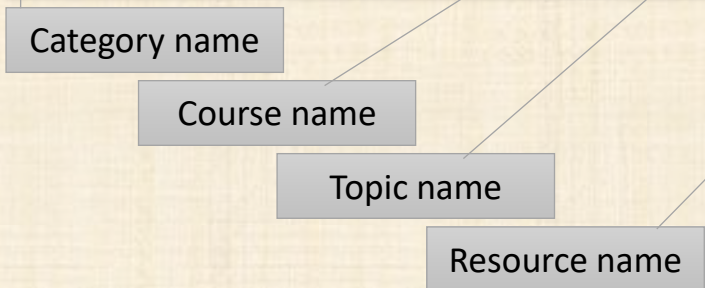
CDX stock content is organized into categories and courses. Each course is displayed in a box containing a picture and a link to the course. The number of courses on your home page depends on your subscription.

Before students can enter a course, they need to be enrolled. There are different methods for enrolling students. Each student enrollment counts as a license.

Instructors and students see the same home page. Think of the home page as a central 'jumping off' point to the Dashboard, My Courses, Grades and other settings.

Content is organized into four levels: Categories

- Courses
 - Topics
 - Resource/Quiz



Expand or collapse course menu

Expand or collapse side menu

Access various course settings

Content is organized into chapters that are aligned to the CDX textbook.

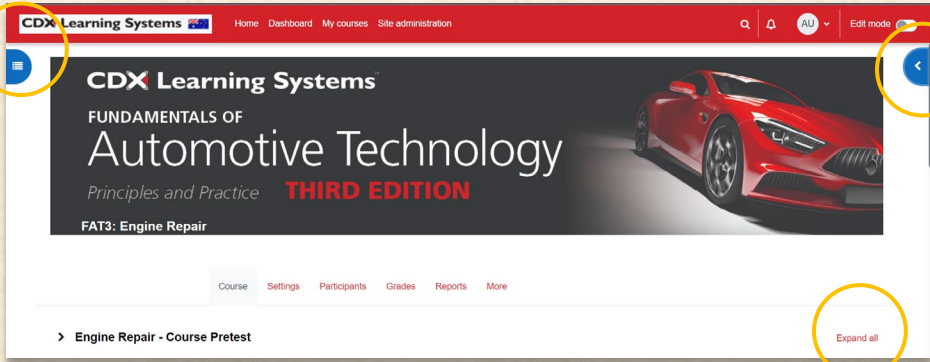
Expanding a topic makes resources and quizzes visible.

Additional resources for instructors that can be made available to students.

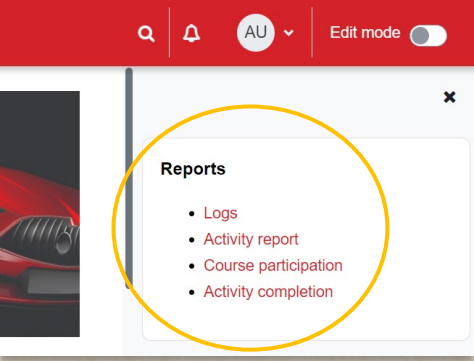
The screenshot shows the course page for 'CDX Learning Systems FUNDAMENTALS OF Automotive Technology Principles and Practice THIRD EDITION FAT3: Safety and Foundation'. The page features a red sports car in the header. Below the header is a navigation bar with 'Home', 'Dashboard', and 'My courses'. A search bar and notification bell are on the right, with the text 'You are logged in as Auto1 Teacher1'. A blue menu icon is on the left. The main content area has a yellow-bordered tab bar with 'Course', 'Participants', 'Grades', 'Reports', 'Badges', and 'More'. Below the tabs is a list of topics: 'General', 'Safety and Foundation - Course Pretest', 'Chapter 1 Careers in Automotive Technology', and 'Chapter 1 Additional Resources' (marked 'Hidden from students'). A 'Reports' sidebar is visible on the right, listing 'Log', 'Activity report', 'Course participation', and 'Activity completion'. A red question mark icon is in the bottom right corner.

A course is a collection of topics around a common theme. Content and quizzes are accessed from within courses. Courses can be customized to your programs need. A student enrollment into one or more courses counts toward the purchased licenses.

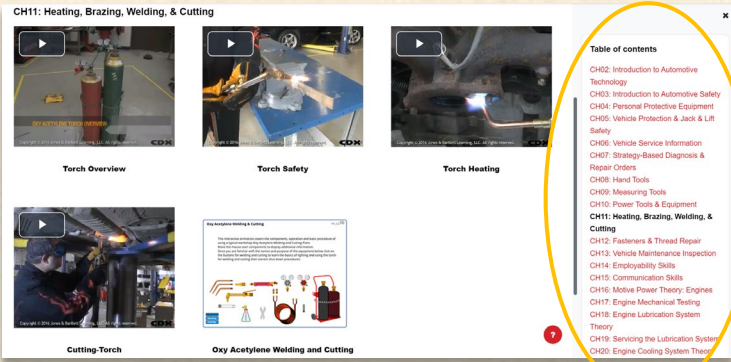




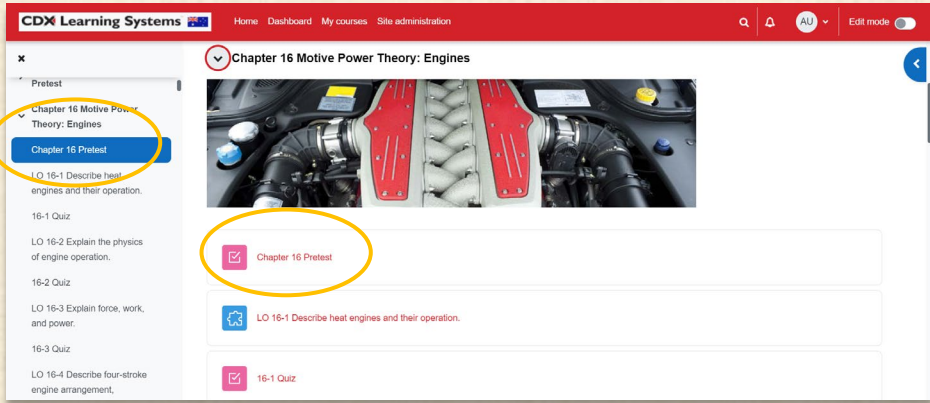
Collapse or open to reveal more content



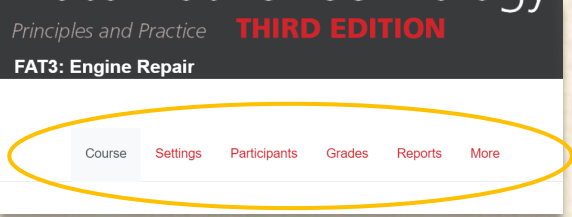
Expanded block drawer provides shortcuts to reports



Menu in Media Galleries provides high level of organization



Course index will highlight closest activity



Common course administration menu for the instructor



Consistent menu bar for all to access dashboard, my courses, personal setting and to put course onto edit mode





Assessment can be done with quizzes. There are course pre-tests, chapter pre-tests, learning outcome quizzes, chapter final quizzes, end of chapter questions, anatomy of a car questions and course final exams. Tests and quizzes are self-marking. Many settings are available to make adjustments.

The gradebook is organized into Pretest, Formative and Summative categories but can be customized to align with your preferences.

Typically, students use quizzes to learn while exams are used to demonstrate learning.

Instructors always see the results of student attempts.

Quizzes can be great motivators for students to master concepts and recall information.

Question 2
Not yet answered
Marked out of 1
Flag question
Edit question

Which type of engine is shown in the image above?

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

FAT3: Safety and Foundation / Chapter 1 Pretest

Chapter 1 Pretest

Quiz Settings Questions Results Question bank More

Chapter 1 Pretest

Preview quiz

Grading method: Highest grade

FAT3: Safety and Foundation / Chapter 1 Pretest / Preview

Chapter 1 Pretest

Quiz Settings Questions Results Question bank More

Back

Question 1
Not yet answered
Marked out of 1
Flag question
Edit question

_____ are connected to a larger parent organization that can help with marketing and provide the same name, logo, and overall look at multiple locations.

Select one:

- a. Dealerships
- b. Independent shops
- c. Specialty shops
- d. Franchises

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15						

Finish attempt ...

Start a new preview





Each quiz or exam can be configured by the instructor. Many choices are available. It is best to provide a consistent experience for students by choosing like settings for all quizzes. Often instructors restrict final exams to one attempt and time the length a quiz can be taken.

FAT3: Safety and Foundation / 1-1 Quiz



1-1 Quiz

Quiz Settings Questions Results Question bank More

1-1 Quiz

Preview quiz

Grading method: Highest grade

CDX provides a large question bank with thousands of questions that can be added to quizzes.

Questions have been added to each quiz or exam. The order in which they appear can be set or random, weighting can be set at the question level and questions can be edited from within a quiz.

Instructors have access to detailed information about how their students interacted with a quiz or exam.

The question bank can be a useful foundation for a department to develop a large assessment pool of questions.

Instructors can preview quizzes and exams quickly. Several options are available under 'Settings'.

Questions

Questions: 5 | This quiz is open

Maximum grade: 10 **Save**

Repaginate Select multiple items Total of marks: 5

Shuffle

Page 1

	Question	Grade	Weighting	Actions
1	(01) Being hand-built, the early automobiles tended to: Being hand-built, the early automobiles tended to:	Always latest	1	🔍 🗑️ ✎️
2	(01) Henry Ford paved the way for automobiles to be: Henry Ford paved the way for automobiles to be:	Always latest	1	🔍 🗑️ ✎️
3	(01) Henry Ford's concept of _____ meant parts did not have to be custom built to match a particular car. Henry Ford's concept of _____	Always latest	1	🔍 🗑️ ✎️
4	(01) Technician A says that Henry Ford is credited with the invention of the automobile. Technician B says that Karl Benz is credited with the invention of the automobile. Who is correct?	Always latest	1	🔍 🗑️ ✎️
5	(01) Technician A states that automobiles became more affordable due to Henry Ford bringing in the concept of the assembly line. Technician B states that automobiles became more affordable due to the assembly line. Who is correct?	Always latest	1	🔍 🗑️ ✎️

Create a new question ...

Question	Actions	Status	Version	Created by	Comments	Needs checking?	Facility index	Discriminative efficiency	Usage	Last used	Modified by
Question name / ID number				First name / Last name / Date							First name / Last name / Date
(ch01endofchquestions) A technician wants to be at the cutting edge of technology. Which type of repair facility would be the best fit for them? 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) All of the following statements are true EXCEPT. 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) In just-in-time manufacturing. 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) Jiffy Lube outlets are examples of: 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) Special certification is required for technicians who handle which of the following systems? 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) Technician A says that a technician can progress to different jobs within the industry. Technician B says that careers in the automotive industry include lot attendants. Who is correct? 🗑️	Edit	Ready	v1	CDX Support 26 July 2023, 1:13 PM	0	-	N/A	N/A	1	Never	CDX Support 26 July 2023, 1:13 PM
(ch01endofchquestions) Technician A says											





LO 1-1 Outline the history of the automobile.

Keyword search allows for quickly finding relevant content without having to browse.

Ability to print pages to pdf for handouts.

Ability to create personalized bookmarks

Robust Text-to-Speech

View in full screen

Content is organized into chapters. Digital content aligns with stock courses and printed books.

Students can write short notes into the ebook for personalization and assists in learning.

The screenshot shows a digital interface for an eBook. At the top, it says "FAT 3e: ASE 0 Safety and Foundation". Below this is a search bar with a magnifying glass icon. To the left is a navigation menu with three items: "Search" (with a magnifying glass icon), "Contents" (with a list icon), and "My Stuff" (with a folder icon). The main content area has a blue header with the text "LO 1-1 OUTLINE THE HISTORY OF THE AUTOMOBILE." Below this is a section titled "Introduction" with a page number "3" in a small box. The text reads: "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!" Below this is another section titled "A Brief History of the Automobile" with text: "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." Navigation arrows are visible on the left and right sides of the content area.

Navigate quickly by flipping thru pages or entering page numbers





Contextual media libraries consisting of videos and animations.

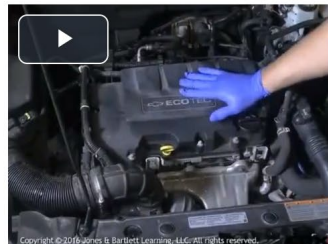
Complete animation library.

Combined video and animation library.

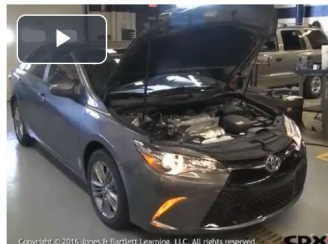
FAT3e_17 Media Gallery



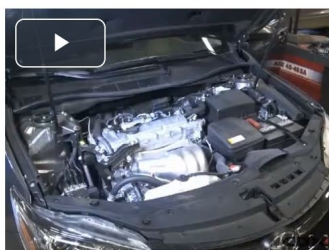
Using a Vacuum Gauge



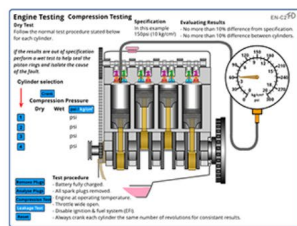
Cylinder Power Balance



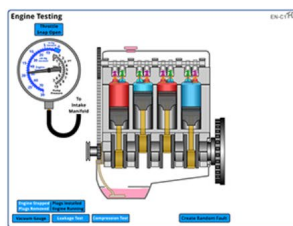
Cranking Compression Test



Running Compression Test

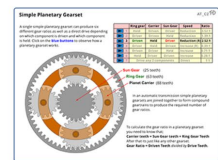


Engine Mechanical Testing V1

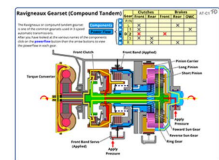


Engine Mechanical Testing V2

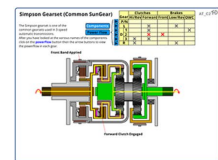
Animation Library



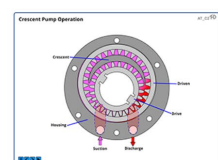
Simple Planetary Gearset



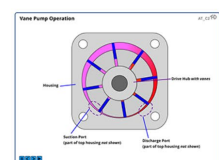
Ravigneaux Gearset (Compound Tandem)



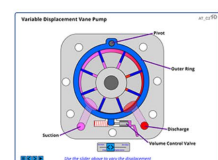
Simpson Gearset (Common SunGear)



Crescent Pump Operation



Vane Pump Operation



Variable Displacement Vane Pump

Table of contents

1. AT-Automatic Transmissions
2. BE-Body Electrical
3. BR-Braking Systems
4. DF-Diesel Fuel Systems
5. DL-Driveline and Final Drives
6. DSC-Diagnostic Scenarios
7. EE-Engine Electrical Systems
8. EN-Engines
9. FS-Fundamentals and Safety
10. FW-Fifth Wheel
11. GF-Gasoline Fuel Systems
12. HA-Heating and Air Conditioning
13. HE-Hybrid and Electric Vehicles
14. HY-Hydraulics for Mobile Equipment
15. MM-Multimeter Experiments
16. MR-Marine Systems
17. MT-Manual Transmissions
18. PP-Paint & Panel
19. SS-Suspension and Steering
20. WF-Welding & Fabrication
21. DHA-Electricity for HVACR

FAT3 Media Gallery

CH02: Introduction to Automotive Technology



Sedans



Coupe



Hatchbacks



Convertibles



Station Wagons



Pickup

Table of contents

CH02: Introduction to Automotive Technology

CH03: Introduction to Automotive Safety

CH04: Personal Protective Equipment

CH05: Vehicle Protection & Jack & Lift Safety

CH06: Vehicle Service Information

CH07: Strategy-Based Diagnosis & Repair Orders

CH08: Hand Tools

CH09: Measuring Tools

CH10: Power Tools & Equipment

CH11: Heating, Brazing, Welding, & Cutting

CH12: Fasteners & Thread Repair

CH13: Vehicle Maintenance Inspection

CH14: Employability Skills

CH15: Communication Skills

CH16: Motive Power Theory: Engines

CH17: Engine Mechanical Testing

CH18: Engine Lubrication System Theory

CH19: Servicing the Lubrication System

CH20: Engine Cooling System Theory





Previous

Next

CH10: Power Tools & Equipment



Charge Battery

Videos play immediately after clicking on the video box.

Video controls are located at the bottom of each video.



Jump Starting

The full screen button opens the video in full screen.

To exist full screen, click Esc on your keyboard or the button in the bottom right of the video.

Most videos contain audio narration and require a working audio speaker.

