



CTI+WTI SVAOLT Online Content

Access to all CTI+WTI online content. Includes over 150 interactive technical and 13 ASE Test Prep courses, 14 Practical Application Simulations. In total over 600 hours of content.

Course Title	Course Code	Training Type	Duration	Description
A1 – Engine Repair	ASE-A1	OLT	1:00	Test Prep - Engine Repair
A2 - Automatic Transmission Transaxle	ASE-A2	OLT	1:00	Test Prep - Automatic Transmission Transaxle
A3 - Manual Drive Train and Axles	ASE-A3	OLT	1:00	Test Prep – Manual Drive Train and Axles
A4 - Suspension and Steering	ASE-A4	OLT	1:00	Test Prep - Suspension and Steering
A5 - Brakes	ASE-A5	OLT	1:00	Test Prep - Brakes
A6 - Electrical Systems	ASE-A6	OLT	1:00	Test Prep - Electrical Systems
A7 - Heating and Air Conditioning	ASE-A7	OLT	1:00	Test Prep – Heating and Air Conditioning
A8 - Engine Performance	ASE-A8	OLT	1:00	Test Prep - Engine Performance
A9 - Diesel Light Engines	ASE-A9	OLT	1:00	Test Prep - Diesel Light Engines
C1 - Automobile Service Consultant	ASE-C1	OLT	1:00	Test Prep - Automobile Service Consultant
G1 - Auto Maintenance and Light Repair	ASE-G1	OLT	1:00	Test Prep - Auto Maintenance and Light Repair
L1 - Advanced Engine Performance Specialist	ASE-L1	OLT	1:00	Test Prep - Advanced Engine Performance Specialist
P2 - Automobile Parts Specialist Test	ASE-P2	OLT	1:00	Test Prep - Automobile Parts Specialist Test
Digital Storage Oscilloscope	OLT-4L01	OLT	2:30	This course covers the basic use of a digital storage oscilloscope in 5 modules with quizzes.
Vehicle Lift Safety	OLT-0103	OLT	1:00	Basic vehicle lift safety
Essential Calculations	OLT-0105	OLT	0:40	This course provides an understanding of the measurements of speed and rotational frequency.

The Environment	OLT-0106	OLT	1:15	Environmental concerns are causing change in our industry and it is important to understand what is at issue. This course will provide direction as to the environmental issues at the heart of the concerns.
Lubricating Oils Introduction	OLT-0107	OLT	0:40	Lubricating Oils Introduction
Engine Oil Coolers and Level Sensing	OLT-0108	OLT	0:40	Engine Oil Coolers and Level Sensing
Engine Oil Change	OLT-0110	OLT	1:00	This course is focused on understanding the engine lubrication system and the products used in serving the system. Primary focus is on the oil change process.
Wheel Alignment Introduction	OLT-0201	OLT	3:00	Understanding the proper steps to prepare a vehicle for a wheel alignment along with knowing the importance of each measured angle is critical to a successful wheel alignment service. This course illustrates each measured angle and calculated angle focusing on their importance and relationship to each other.
Wheel Alignment Advanced	OLT-0202	OLT	3:20	This course takes you through the analysis of the alignment data and focuses on determining the cause of the tire wear issue. Topics include subframes, dynamic angles such as dynamic camber, dynamic steering axis inclination, and dynamic toe angle. As well the alignment sequence is discussed to ensure you are adjusting each angle or solving the problems in the right order.
Wheel & Tire Technology Complete Course	OLT-0204	OLT	1:35	This course focuses on all aspects of wheels and tires
Power Steering Systems	OLT-0206	OLT	1:00	This course introduces steering system differences between Hydraulic and Electric Power Steering systems.
Shock Absorber Introduction	OLT-0208	OLT	1:00	Shock Absorber Introduction
Suspension Springs	OLT-0209	OLT	0:45	Suspension Springs
Suspension Systems	OLT-0210	OLT	1:30	This course covers current suspension system design and diagnostic guidance.



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Drive Train Basics	OLT-0300	OLT	1:30	This course focuses on the elements of drive shafts, universal joints, constant velocity joints and bearings found in today's drive trains.
Clutch System	OLT-0301	OLT	1:30	This course illustrates how a clutch works and focuses on the components involved including the disc, pressure plate, release bearing and maintenance.
Automotive Braking Systems Part 3 - Disc Brakes	OLT-0404	OLT	0:45	This course covers disc brake design, theory and operation. The learner will be exposed to the design and operation of disc brake caliper and learn the key areas for inspection of such components. Brake disc designs as characteristics will be explained along with cause-and-effect wear pattern recognition.
Automotive Braking Systems Part 4 - Drum Brakes	OLT-0405	OLT	0:45	In this course the learner will be introduced to the most common designs used in modern automotive drum brake systems. Configurations covered include Servo, Non-Servo and Duplex drum brakes. Operation characteristics will be covered for each configuration to establish the positive and negative attributes to drum brakes. This course also covers the many configurations of parking brake systems in use today such as mechanical and electric parking brakes used on disc and drum configurations.
Automotive Cooling Systems	OLT-1002	OLT	1:30	This course will introduce the basic principles of automotive cooling system and associated monitoring systems.
Internal Combustion Basics	OLT-1003	OLT	0:30	This course will explain the basic operational designs of both the 4-stroke gasoline and diesel engines.
The 4-Stroke Engine	OLT-1004	OLT	1:15	Understanding the 4-strokes as well as the interaction of those strokes between cylinders is crucial to proper diagnosis of drivability concerns. This course will reinforce your understanding of 4-stroke basics as well as introduce you to newer engine block designs.
Electronic Throttle Controls – Introduction	OLT-1006	OLT	1:00	Electronic Throttle Controls – Introduction
Shop Safety Theory	OLT-1101	OLT	7:40	Entry Level Technician Shop Safety
Hand Tools Theory	OLT-1102	OLT	13:00	Entry level technician hand tools theory
Lifting Equipment Theory	OLT-1103	OLT	2:40	Entry level technician lifting equipment theory

Automotive Fuels and Lambda	OLT-1104	OLT	2:00	This course covers the characteristics of multiple automotive fuel types and how the proper air/fuel mixture can affect the combustion process.
Gasoline Direct Injection	OLT-1105	OLT	1:10	This course covers the design and operational characteristics of modern Gasoline Direct Injection systems.
Gas Direct Injection Advanced	OLT-1106	OLT	4:00	GDI technology will be the most common fuel injection strategy found newer vehicles. Understanding the component details and operating strategies will enable you to better apply diagnostic strategies and techniques learned in CTI instructor led classes. This course focuses on the primary components such as the high-pressure fuel pump, air intake systems, fuel injectors, fuel delivery systems and GDI strategies such as Homogenous, Homogenous Stratified, Stratified, Homogenous Lean and more.
Precision Measurement & Related Theory	OLT-1107	OLT	7:20	Entry level technician precision measurement & related theory
Safety Pre & Post Tests	OLT-1108	OLT	3:20	Entry level safety pre and post tests
Tools & Equipment Pre & Post Tests	OLT-1109	OLT	3:40	Entry level technician tools and equipment pre & post test
Electricity and Electrical Test Equipment	OLT-1215	OLT	1:15	This course will introduce AC and DC voltage as well as cover basic usage of a Digital Volt Ohm Meter. This foundational course provides the necessary knowledge of the operational characteristics of the virtual test equipment which will be used in many other CTI web-based training courses.
Current - Electricity at work	OLT-1216	OLT	1:00	In this course you will be exposed to the fundamentals of Ohm's Law and Kirchhoff's Law as they apply to current flow within an electrical circuit.
Electrical Circuit Types	OLT-1217	OLT	2:00	This course provides an introduction to the two basic electrical circuit types - Series and Parallel. In this course the learner will be provided with a virtual DVOM along with virtual electrical components which will be used to establish a foundational knowledge of these circuit designs.

Lab Scope Introduction	OLT-1218	OLT	1:00	Oscilloscopes have become an indispensable diagnostic tool for today's automotive technician. This course will explain the concepts of measuring voltage and amperage over time as well as the various signals which can be measured.
Lead-Acid Batteries	OLT-1219	OLT	1:00	While the humble 12-volt automotive battery seems to have changed little in many years, how the modern vehicle monitors and maintains the battery has changed to an alarming degree. This course will provide the service consultant with the basic knowledge necessary to understand automotive battery specifications allowing informed discussions regarding replacement options with both service technicians and customers alike.
Lead-Acid Batteries Design and Testing	OLT-1220	OLT	2:00	Lead-Acid Batteries Design and Testing
Starter Motors - Introduction	OLT-1221	OLT	0:50	Starter Motors - Introduction
Starter Motors Diagnostics	OLT-1222	OLT	1:00	Starter Motors Diagnostics
Lab Scope Operation	OLT-1223	OLT	2:00	This oscilloscope course focuses on the proper setup approach when using a lab scope. Two channel use is covered as well as exercises that allow you to practice your new skills
Multi-Port Fuel Injection	OLT-1317	OLT	3:00	This course covers the design and operational characteristics of modern Multi-Port fuel injection systems.
eRO-1 CTI Electude Simulator	SIM-1400	SIM	0:20	There is nothing wrong with this vehicle. This is an opportunity to learn how the simulator and virtual tools work so you become familiar with them prior to taking on the eRO challenges.
eRO-2 Intermittent MIL	SIM-1401	SIM	1:00	This vehicle has been dispatched to you and the vehicle is in your bay. You have all the tools and information needed to solve this problem. Good luck!
eRO-3 Engine Stalls	SIM-1402	SIM	1:00	You just pulled a ticket for this vehicle and the challenge is to diagnose and repair a vehicle that stalls while driving and won't restart. Use the tools available to you in the right margin. Read the work order and begin. When you think



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				you're done mark the repair order appropriately and see how you did. Good luck!
eRO-4 Engine Runs Rough and Stalls	SIM-1403	SIM	1:00	Here is your next challenge. You have all the tools and parts needed to solve this drivability issue. Complete the work and mark the work order appropriately. Good luck
eRO-5 Vehicle Will Not Accelerate	SIM-1404	SIM	1:00	Here is your next eRO challenge. The repair order has been dispatched to you. Your job is to diagnose and repair the vehicle and get the customer back on the road. Don't panic. You have all the tools, information and parts needed to be successful. Good luck!
eRO-6 MIL ON and Tachometer Flutters	SIM-1405	SIM	1:00	Your challenge for this eRO is to solve the customers problem. You have all you need to get the customer back on the road. Good luck.
eRO-7 Throttle Stuck and MIL ON	SIM-1406	SIM	1:00	Your eRO challenge is to determine what is causing this vehicles lack of acceleration and MIL ON. You have all you need to fix this one. Good Luck!
eRO-8 MIL ON	SIM-1407	SIM	1:00	Your eRO challenge is to determine and cure the cause of the MIL ON. You have all you need to be successful. Good Luck!
eRO-10 Idles Rough and MIL On at Times	SIM-1409	SIM	1:00	Your latest eRO challenge is in your hands. You have the tools, information and parts needed to repair the issue. Good Luck.
eRO-11 Intermittent MIL On	SIM-1411	SIM	0:20	This vehicle is in your bay. Can you fix it? The challenge is to solve and repair the problem. Good luck!
eRO-12 MIL On and Fuel Economy Issue	SIM-1412	SIM	0:30	This is your next challenge. Diagnose and repair this problem. Good luck
Introduction to Automotive Communication Networks	OLT-1418	OLT	2:00	This course is an introduction to automotive computer networking and network topology.
eRO-101 No Start	SIM-1471	SIM	0:30	This vehicle is your next challenge. Review the work order and solve the problem. Good luck!
eRO-102 Engine Overheats	SIM-1472	SIM	0:30	You just received this work order. Diagnose and solve the problem. Good luck.
Understanding Hybrid Technology	OLT-1505	OLT	3:00	Understanding the hybrid technology is critical to keeping hybrid vehicle owners as customers. This course will provide an introductory look at hybrid vehicle design and operation.

Vehicle Lighting	OLT-1701	OLT	3:00	Vehicle lighting systems are a mystery to many drivers. This course will provide introductory knowledge of light source types as well as the various uses of differing lighting technologies on modern vehicles. Upon completion of this course, the learner should have the ability to confidently discuss vehicle lighting and service needs.
Supplemental Restraint Systems	OLT-1806	OLT	3:05	This course will provide foundational information necessary to understand supplemental restraint systems.
Engine Repair Pre & Post Test	OLT-2100	OLT	2:30	Entry level technician engine repair pre & post tests
General Engine Theory	OLT-2101	OLT	4:40	Entry level technician general engine theory
Cylinder Head & Valve Train Theory	OLT-2102	OLT	5:00	Entry level technician cylinder head & valve train theory
Lubrication & Cooling Theory	OLT-2103	OLT	13:00	Entry level technician lubrication and cooling theory
General Maintenance Theory	OLT-2104	OLT	7:00	Entry level technician general maintenance theory
Automatic Transmission & Transaxle Pre & Post Test	OLT-2200	OLT	1:40	Automatic Transmission & Transaxle Pre & Post Test
Automatic Transmission & Transaxle Theory	OLT-2201	OLT	12:15	Entry level technician automatic transmission & transaxle theory
Manual Transmission & Drive Train Pre & Post Test	OLT-2300	OLT	1:45	Entry level technician manual transmission & drive train pre & post test
Manual Transmission Theory	OLT-2301	OLT	12:05	Entry level technician manual transmission theory
Clutch Theory	OLT-2302	OLT	4:45	Entry level technician clutch theory
Driveshaft, Universal & CV Joint Theory	OLT-2303	OLT	2:50	Entry level technician driveshaft, universal and constant velocity joint theory
Differential Theory	OLT-2304	OLT	1:15	Entry level technician differential theory
Steering & Suspension Pre & Post Test	OLT-2400	OLT	2:30	Entry level technician steering and suspension pre and post tests
Wheels & Tires Theory	OLT-2401	OLT	8:00	Entry level technician wheels and tires theory
Tire Pressure Monitoring Systems TPMS	OLT-2402	OLT	3:00	Entry level technician Tire Pressure Monitor System TPMS
Suspension Theory	OLT-2403	OLT	7:20	Entry level technician suspension theory
Steering System Theory	OLT-2404	OLT	2:50	Entry level technician steering system theory
Wheel Alignment Theory	OLT-2405	OLT	7:00	Entry level technician wheel alignment theory
Brakes Pre & Post Test	OLT-2500	OLT	2:30	Entry level technician brakes pre & post tests

Brakes Introduction Theory	OLT-2501	OLT	2:00	Entry level technician brakes introduction theory
Hydraulic & Power Assist Theory	OLT-2502	OLT	4:50	Entry level technician hydraulic and power assist theory
Disc Brakes Theory	OLT-2503	OLT	2:50	Entry level technician disc brakes theory
Drum Brakes Theory	OLT-2504	OLT	2:10	Entry level technician drum brakes theory
Antilock Brakes, Traction Control, Stability Control Theory	OLT-2505	OLT	5:00	Entry level technician antilock brakes, traction control and stability control theory
Electrical Electronic Systems Pre & Post Test	OLT-2600	OLT	4:20	Entry level technician electrical/electronic systems pre & post tests
Basic Electrical Theory	OLT-2601	OLT	5:25	Entry level technician basic electrical theory
Electrical Measurement Theory	OLT-2602	OLT	1:00	Entry level technician electrical measurement theory
Electrical Circuits Ohm's & Watt's Law Theory	OLT-2603	OLT	8:10	Entry level technician electrical circuits Ohm's and Watt's Law theory
Electrical Troubleshooting Theory	OLT-2604	OLT	1:30	Entry level technician electrical troubleshooting theory
Battery Theory	OLT-2605	OLT	4:15	Entry level technician battery theory
Starting System Theory	OLT-2606	OLT	6:30	Entry level technician starting system theory
Charging System Theory	OLT-2607	OLT	6:55	Entry level technician charging system theory
Electrical Accessories Theory	OLT-2608	OLT	4:00	Entry level technician electrical accessories theory
Lighting Theory	OLT-2609	OLT	5:00	Entry level technician lighting theory
Safety Systems Theory	OLT-2610	OLT	6:30	Entry level technician safety systems theory
Electrical Components Theory	OLT-2611	OLT	12:30	Entry level technician electrical components theory
Control Area Network Theory	OLT-2612	OLT	5:20	Entry level technician control area network theory
Heating & Air Conditioning Pre & Post Test	OLT-2700	OLT	3:00	Entry level technician heating & air conditioning pre & post tests
Heating & Air Conditioning Introduction Theory	OLT-2701	OLT	7:00	Entry level technician heating & air conditioning introduction theory
Heating & Air Conditioning Components Theory	OLT-2702	OLT	10:15	Entry level technician heating & air conditioning components theory
Heating & Air Conditioning Service Theory	OLT-2703	OLT	2:20	Entry level technician heating & air conditioning service theory
Engine Performance Pre & Post Test	OLT-2800	OLT	2:30	Entry level technician engine performance pre & post tests





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Engine Mechanical/Performance Theory	OLT-2801	OLT	2:30	Entry level technician engine mechanical/performance theory
Air Intake & Exhaust Theory	OLT-2802	OLT	4:30	Entry level technician air intake and exhaust theory
Engine Management Signals & Sensors Theory	OLT-2803	OLT	8:25	Entry level technician engine management signals & sensors theory
Ignition System Theory	OLT-2804	OLT	3:40	Entry level technician ignition system theory
Multi-Port Fuel Injection Theory	OLT-2805	OLT	5:00	Entry level technician multi-port fuel injection theory
Gas Direct Injection Theory	OLT-2806	OLT	11:50	Entry level technician gas direct injection theory
Emissions Control Theory	OLT-2807	OLT	11:20	Entry level technician emissions control theory
Diesel Engines Basic Theory	OLT-2901	OLT	8:20	Entry level technician diesel engines basic theory
Common Rail Diesel Theory	OLT-2902	OLT	5:00	Entry level technician common rail diesel theory
Electronic Diesel Control Theory	OLT-2903	OLT	5:35	Entry level technician electronic diesel control theory
Introduction to Electric Drive	OLT-3501	OLT	3:25	Introduction to Electric Drive systems including hybrid electric and battery electric vehicles. This is course 1 of a 9 course series that provides foundation knowledge of HEV and BEV systems.
Working on Hybrid Vehicles	OLT-3502	OLT	4:20	This course focuses on the basic safety and service aspects of working on HEV and BEV vehicles
Electric Drive Categories	OLT-3503	OLT	2:50	Course 3 in a 9 course series covering the different types of electric drive systems.
Electric Drive Components	OLT-3504	OLT	10:25	This course covers the key components including the HV battery, DC/DC Converter and Inverter details.
Electric Motors	OLT-3505	OLT	5:20	This covers the electric machine in detail helping the learner better understand the foundation knowledge needed to diagnose HEV and BEV systems.
Hybrid Systems	OLT-3506	OLT	2:25	This course focuses on the planetary drive systems of a typical HEV.
HV Charging System	OLT-3507	OLT	4:10	Course 7 of 9 covers the High Voltage charging system and the strategies used.
HV Safety Systems	OLT-3508	OLT	4:10	Course 8 of 9 covers the high voltage safety systems used to protect drivers, emergency personnel and you from the dangers of the high voltage system.



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HV Battery Management Systems	OLT-3509	OLT	3:15	The last course of the series covers the details of managing the HV battery energy flow.
Engine Advanced	OLT-4101	OLT	23:10	This course contains 46 modules with quizzes focused on the theory and operation of modern engines.
Cooling System Advanced	OLT-4102	OLT	6:30	This course covers the theory and operation of cooling systems in 30 modules and quizzes.
Automatic Transmission Advanced	OLT-4201	OLT	11:20	This course covers the theory and operation of the automatic transmission in 22 separate modules.
Steering Systems Advanced	OLT-4401	OLT	3:35	This course covers the theory and operation of steering systems in 16 modules.
Suspension Systems Advanced	OLT-4402	OLT	4:20	This course contains 20 modules covering suspension systems.
Shock Absorber Advanced	OLT-4403	OLT	2:15	This course covers the theory and operation of shock absorbers in 10 modules
Wheel Alignment Advanced	OLT-4404	OLT	6:50	This course contains 27 modules and quizzes covering advanced wheel alignment.
Electronic Stability Control Advanced	OLT-4405	OLT	5:35	This course covers the theory and operation of electronic stability control systems in 20 modules and quizzes.
Brakes Advanced	OLT-4501	OLT	13:05	This course covers the theory and operation of brake systems in 23 modules and quizzes.
Electrical Engineering Introduction	OLT-4601	OLT	2:05	This course introduces electrical fundamentals along with DC and AC voltage in 2 modules with quizzes.
Electrical Engineering Measurement	OLT-4602	OLT	1:25	This course covers the basic tools used in electrical diagnosis in five modules with quizzes.
Electrical Engineering Calculation	OLT-4603	OLT	8:30	This covers the laws of electricity and electronics with the calculations necessary to properly analyze any circuit.
Electrical Engineering Components	OLT-4604	OLT	10:25	This 6 module with quizzes course covers the foundation components of electrical and electronic systems.
Electrical Engineering Special Resistors	OLT-4605	OLT	1:10	This three module course covers light dependent, magnetic resistive and thermistors.
Electrical Engineering Magnetism & Electromagnetism	OLT-4606	OLT	3:10	This four module course covers the foundations of magnetism, electromagnetism, Lorentz force and induction.
Electrical Engineering Applications	OLT-4607	OLT	5:55	This course covers the application of the fundamental components of electrical systems.

Electrical Engineering Oscilloscope	OLT-4608	OLT	2:35	This course covers the key skills required to use a digital storage oscilloscope in diagnosing electrical and electronic circuits.
Electrical Engineering Signals	OLT-4609	OLT	2:05	This six module course covers the application of diagnostic tools to possible faults in components that might be found in automotive electrical systems.
Lead-Acid Batteries	OLT-4610	OLT	4:10	Lead-Acid Batteries
Starter Motors	OLT-4611	OLT	8:25	Starter Motors
Alternators	OLT-4612	OLT	7:10	Alternators
Glow Plugs	OLT-4613	OLT	1:30	Glow plug heating system
HVAC Systems Advanced	OLT-4701	OLT	16:55	This is a 24 module course covering modern automotive HVAC systems theory and operation including leak detection.
Multipoint Injection	OLT-4801	OLT	3:00	This course covers the basic theory and operation of multipoint injection systems in 12 modules and quizzes.
Engine Management Sensors	OLT-4802	OLT	7:45	This 30 module course covers the theory and operation of engine management sensors.
Engine Management Actuators	OLT-4803	OLT	6:20	This 20 module course covers the theory and operation of engine management actuators.
Gasoline Direct Injection Advanced	OLT-4804	OLT	4:40	This course covers the theory and operation of GDI in 16 modules and quizzes.
Common Rail Diesel Advanced	OLT-4901	OLT	5:05	The theory and operation of common rail diesel systems in this 18 module course.
Electronic Diesel Control Advanced	OLT-4902	OLT	5:35	This 18 module course covers the theory and operation of modern electronic diesel control systems.
Exhaust Gas After-Treatment	OLT-4903	OLT	9:05	This course covers the theory and operation of modern exhaust gas after-treatment systems in 26 modules.
Midtronics MDX-222p Battery Tester Training	CTI-5605	OLT	0:40	Battery, Starting and Charging Systems testing with the Midtronics MDX-222p and E-Z Red Memory Saver
MAP Qualification Course & Test	MAP-TEST	TEST	0:30	MAP Qualification Course & Test