Language E = English, S = LA Spanish, C = Chinese, F = French, DE=German

Caterpillar University

Environmental, Health and Safety Training (92 Courses)

Course Number	Course Title	Language	Course Description	Course Duration
40290	Aerial Work Platforms	E	Don't get hung up working overhead. This computer-based training module describes basic types of aerial work platforms and how to work with them safely. It provides an overview of safety requirements, controls, preparation, work rules, hazards, and other safety precautions related to elevated platforms. This course discusses Extensible Boom Platforms, Aerial Ladders, Articulating Boom Platforms, and Vertical Towers. 12 Minutes (7 min. video + 5 min. test) 29 CFR 1910.67	:12
40293	Asbestos Awareness	E	Dispel some of the common myths about asbestos by educating your team about Asbestos Containing Materials (ACM) and how to work safely around them. This computer-based training module describes the most common types of asbestos as well as the hazards asbestos may present. It provides an overview of the history of asbestos use, exposure limits, detection, prevention, and regulation. It also covers some of the potential effects of long-term exposure including asbestosis, lung cancer, and mesothelioma. 20 Minutes (12 min. video + 8 min. test) 29 CFR 1910.1001 For specific procedures, be sure to refer to your location's policies and procedures.	:20
40294	Bloodborne Pathogens	E	This computer-based training module defines bloodborne pathogens and describes common methods of transmission. It also provides details related to exposure risks, exposure prevention, and steps to take in the event of exposure to blood or potentially infected material. Hepatitis B, HIV, proper hygiene, and waste disposal are also discussed. Training Time: 13 Minutes 29 CFR 1910.1030 For specific procedures, be sure to refer to your location's policies and procedures.	:13
40297	Combustible Dusts	E	It's only DUST! What's the big deal? Under the right conditions, many types of industrial dust, including coal, paper, and wood dust, can ignite and produce a devastating explosion. With our Combustible Dusts course, you'll learn to identify the hazards of combustible dust by using the Dust Fire and Explosion Pentagon. You''ll get a clear understanding of dust control and preventions measures as well as dust analysis and explosion risk reduction. Our course will also help identify additional risks and prevention techniques associated with primary and secondary dust explosions. Based on OSHA's ""Status Report on Combustible Dust National Emphasis Program"" and ""Hazard Communication Guidance for Combustible Dusts."" For specific procedures, be sure to refer to your location's policies and procedures.	:15
40298	Compressed Air Fundamentals	E	Prepare yourself and your team to work safely with and around compressed air systems. Use this DVD to get a better understanding of the benefits and uses of compressed air. This course discusses the types of compressors (reciprocating, rotary screw, and centrifugal), the relationship between pressure, temperature and volume, gauge vs. absolute pressure, and air quality considerations. Additional topics include air cooling and drying as well as managing airborne, oil, and moisture contamination. 24 Minutes (15 min. video + 9 min. test) For specific procedures, be sure to refer to your location's policies and procedures.	:24
40299	Compressed Gas Cylinder Safety	E	Prepare yourself and your team to work safely with and around compressed gas cylinders. This course describes compressed gas cylinders and how they are commonly used. Use this training module to raise awareness about potential hazards and learn best practices for storage, transport, installation, and use of compressed gas cylinders. Missile hazards and types of compressed gases are also discussed. 13 Minutes (8 min. video + 5 min. test) For specific procedures, be sure to refer to your location's policies and procedures.	:23
40300	Confined Space Awareness	E, S	Don't get stuck in a tight spot. This computer-based training module provides information on confined space identification, hazardous atmospheres, physical hazards, entrance and exit hazards, hazard prevention and permits. Other topics discussed include, atmospheric testing, energy isolation, engulfment, moving or rotating equipment, and rescue procedures. 29 Minutes (18 min. video + 11 min. test) 29 CFR 1910.146 For specific procedures, be sure to refer to your location's policies and procedures.	:29

40301	Alert Driving	E	Understanding the importance of being an alert driver can mean the difference between life and death. Learn how to observe conditions around you, anticipate hazardous situations, and react to avoid hazards with our Alert Driving course. Our course discusses driving at safe speeds, the dangers of driving while impaired, and illustrates how to increase your reaction time by following the two-second rule. Alert driving is a fundamental element of safe, defensive driving techniques. For	:11
40302	Driving Preparation	E	Be prepared for any trip with our Driving Preparation training that provides the basics of vehicle maintenance and inspection as well as suggestions for planning your route. Our course also suggests some valuable emergency supplies that can help prevent a minor inconvenience from becoming a major problem, such as common tools, spare tire, jumper cables and more. In addition to saving time and other costs, proper driving preparation can ultimately save your life as well as the lives of other drivers, passengers, and pedestrians around you. For specific procedures, be sure to refer to your location's policies and procedures.	:13
40303	Driving Hazard Recognition	E	Safe drivers recognize potential hazards and stay out of harm's way. With our Driving Hazard Recognition course, you'll learn techniques for negotiating intersections and blind spots as well as avoiding erratic drivers, pedestrians, animals, and parked vehicles. You'll also learn about driving with limited visibility and in slippery conditions. Paying extra attention to common driving hazards can help ensure that your passengers and cargo return home safely. For specific procedures, be sure to refer to your location's policies and procedures.	:13
40304	Electrical Safety General Awareness	E, S	Be prepared for any trip with our Driving Preparation training that provides the basics of vehicle maintenance and inspection as well as suggestions for planning your route. Our course also suggests some valuable emergency supplies that can help prevent a minor inconvenience from becoming a major problem, such as common tools, spare tire, jumper cables and more. In addition to saving time and other costs, proper driving preparation can ultimately save your life as well as the lives of other drivers, passengers, and pedestrians around you. For specific procedures, be sure to refer to your location's policies and procedures.	:18
40308	Ergonomics	E	Understand how to recognize and reduce the stress on your body from your daily work environment. This course discusses musculoskeletal disorders (MSD) and prevention techniques, including engineering and administrative controls. Motion-based, physical, environmental, and psychological risk factors are also covered. Based on OSHA Ergonomic Guidelines. For specific procedures, be sure to refer to your location's policies and procedures.	:20
40310	Fall Prevention and Protection	E, S	Slips, trips, and falls are often the most common causes of injuries and occupational fatalities. Raise awareness and lower the likelihood of these incidents with this course focusing on fall prevention, fall injury reduction, personal fall arrest systems, and fall protection nets. 10 Minutes (6 min. video + 4 min. test) Based on 29 CFR 1910.66 App C For specific procedures, be sure to refer to your location's policies and procedures.	:10
40311	Fire Extinguisher Safety	E	We see them hanging on the wall every day but most people know very little about fire extinguishers. Use this course to educate your team on the fire triangle, the types of fires that can occur in the workplace, and how and when to use a fire extinguisher. This course also describes when to evacuate and provides some proper maintenance tips for fire extinguishers. 14 Minutes (9 min. video + 5 min. test) Based on 29 CFR 1910.157 For specific procedures, be sure to refer to your location's policies and procedures.	:14
40312	Fire Safety	E	Be prepared to keep yourself and your team safe in the event of a fire. This computer-based training module covers the nature of fire, preventative and protective measures, fire sprinklers, smoke detectors, alarms, extinguishers, evacuation, and the stop-drop and roll technique. Fire classifications and basic fire extinguisher use is also discussed. 23 Minutes (14 min. video + 9 min. test) Based on 29 CFR 1910 Subpart L For specific procedures, be sure to refer to your location's policies and procedures.	:23
40313	First Aid for Common Injuries - EHS	E	Unfortunately, everybody gets hurt at some point. Use this course to prepare yourself and your team to recognize the symptoms of and provide first aid for various common injuries and illnesses. This computer-based training module discusses concussions, eye injuries, burns (heat and chemical), fractures, dislocations, bites (insect, animal, and human), and environmental exposure emergencies such as heatstroke, hypothermia, and dehydration. 37 Minutes (23 min. video + 14 min. test) 30 CFR Part 46.5.c.2	:37

40314	First Aid for Emergencies - EHS	E	Be prepared to help in emergency situations. Use this computer-based training module to prepare yourself and your team to recognize the symptoms of and provide first aid in various life-threatening emergency situations. A broad range of common emergencies are discussed, including heart attack, cardiac arrest, shock, choking, stroke, blood loss, amputations, poisoning, seizures, drug overdose, diabetic emergencies, and loss of consciousness. 48 Minutes (30 min. video + 18 min. test) 30 CFR Part 46.5.c.2 For specific procedures, be sure to refer to your location's policies and procedures.	:48
40315	First Steps in All First Aid Situations - EHS	E	The first moments of every emergency situation are always the most critical. Use this computer-based training module to learn about the "DR. ABC" method and the importance of quickly calling 9-1-1. This course also explains how and when to perform artificial respiration and CPR, as well as how to use an automatic or semiautomatic external defibrillator (AED). 34 Minutes (21 min. video + 13 min. test) 30 CFR Part 46.5.c.2 For specific procedures, be sure to refer to your location's policies and procedures.	:34
40316	Forklift Safety	E, S	Course Overview: Give your forklift safety a boost. This training course covers basic forklift operating procedures intended to increase safety and help prevent the most common forklift accidents. This course includes important information required by OSHA's general industry standards (29 CFR 1910.178) as well as best practices on operating powered industrial trucks. This course can be used as an introduction to forklift safety and operation or as a refresher on forklift basics. Included in this DVD: •How a forklift works and moves •The importance of performing inspections •Safe methods of forklift operation •Safe procedures for working around pedestrians and other equipment •Common forklift hazards Scope of Course : This training video provides information on the most common types of forklifts used in general industry and warehouse environments; it doesn't cover rough terrain forklifts, aerial work platforms, or forklifts with extendable booms. Sources: OSHA 29 CFR 1910.178 Recognized industry best practices Content contribution by Frederick "Rick" Heath: industry expert on material handling equipment, Principal of Heath & Associates For specific procedures, be sure to refer to your location's policies and procedures.	:49
40317	Formaldehyde Awareness	E	Course Overview: Give your forklift safety a boost. This training course covers basic forklift operating procedures intended to increase safety and help prevent the most common forklift accidents. This course includes important information required by OSHA's general industry standards (29 CFR 1910.178) as well as best practices on operating powered industrial trucks. This course can be used as an introduction to forklift safety and operation or as a refresher on forklift basics. Included in this DVD: •How a forklift works and moves •The importance of performing inspections •Safe methods of forklift operation •Safe procedures for working around pedestrians and other equipment •Common forklift hazards Scope of Course : This training video provides information on the most common types of forklifts used in general industry and warehouse environments; it doesn't cover rough terrain forklifts, aerial work platforms, or forklifts with extendable booms. Sources: OSHA 29 CFR 1910.178 Recognized industry best practices Content contribution by Frederick "Rick" Heath: industry expert on material handling equipment, Principal of Heath & Associates For specific procedures, be sure to refer to your location's	:14
40318	H1N1 Awareness	E	Our H1N1 Flu video is a brief 6-minute show providing a unique and practical overview of what H1N1 Flu is and what each of us can do to protect ourselves and our families. As in all of our safety related videos, we use high quality 3D images and motion graphics to give our presentation a contemporary look and feel. For specific procedures, be sure to refer to your location's policies and procedures.	:13
40319	Hand and Power Tools	E, S	The power to recognize and avoid injury is right at your fingertips. This computer-based training module includes information on hand tools, power tools, general tool safety, maintenance, guards, best practices, and operating guidelines. The module also covers safety related to electrical, pneumatic, hydraulic, liquid fuel, and powder-actuated power tools. 23 Minutes (14 min. video + 9 min. test) 29 CFR 1910 Subpart P For specific procedures, be sure to refer to your location's policies and procedures.	:23
40320	Hand Safety	E	We can think of at least ten critical reasons you should use this course to protect your hands. This computer-based training module covers the physiology of the hand, guidelines for hand safety, specific hand-safety situations, and proper personal protective equipment selection. Safety concerns discussed also include, protecting your hands from moving machine parts, extreme temperatures, chemicals, physical stress, and infection. Training Time: 12 Minutes 29 CFR 1910.132 For specific procedures, be sure to refer to your location's policies and procedures.	:12

40321	Hazard Communication	E, S	Get a better understanding of the importance of container labeling for a safer workplace. This computer-based training module discusses OSHA's Hazard Communication Standard (HCS) and the requirements for a written Hazard Communication Program (HCP). Learn about the four factors of chemical exposure and additional topics such as workplace chemicals, chemical exposure, chemical labeling, Material Safety Data Sheets (MSDS), and methods of controlling physical and health hazards. 16 Minutes (10 min. video + 6 min. test) 29 CFR 1910.1200 For specific procedures, be sure to refer to your location's policies and procedures.	:16
40323	Hearing Conservation	E	Protect one of your most valuable senses with a better understanding of the anatomy of the ear, how sound works, how the ear interprets sound, the effects of noise on hearing, and annual audiometric testing. Learn how to avoid occupational hearing loss by choosing and using the right hearing protection for your job, such as ear muffs and ear plugs. 18 Minutes (11 min. video + 7 min. test) 29 CFR 1910.95 For specific procedures, be sure to refer to your location's policies and procedures.	:18
40324	Hexavalent Chromium	E	Protect yourself and your team from increased risk of cancer with our training designed to raise awareness about the dangers of hexavalent chromium exposure. Welders and other workers who handle or assemble electronic components may be at higher risk of exposure to this known human carcinogen. Learn what hexavalent chromium is, how it's formed, the health hazards it presents, and what personal protective equipment you can use to protect yourself. Our training will also give you a better understanding of OSHA permissible exposure limits, monitoring, record keeping, medical surveillance, and employee notification. You'll also	:34
40325	Hydrogen Sulfide Awareness	E	Sometimes what you can't smell can hurt you. Protect yourself and your team with this critical information that raises awareness of what Hydrogen Sulfide (H2S) is and discusses exposure risks and effects, toxicity, ignition, detection, prevention, and evacuation. 13 Minutes (8 min. video + 5 min. test) 29 CFR 1910 Subpart Z For specific procedures, be sure to refer to your location's policies and procedures.	:13
40326	Ladder Safety	E, S	With this course, you get the step-by-step basics of ladder safety. Topics discussed on this ladder safety training module include information on the types of ladders you may find in your workplace as well as ladder construction, ladder selection, height requirements, weight capacity, hazardous conditions, inspections, ladder setup, use, storage, and maintenance. 23 Minutes (14 min. video + 9 min. test) 29 CFR 1910 Subpart D For specific procedures, be sure to refer to your location's policies and procedures.	:23
40327	Laser Safety	E	Use this computer-based training module to learn about working safely around Light Amplification by Stimulated Emission of Radiation (LASERs). This course covers laser light, how lasers work, types of lasers, laser classifications, laser hazards, low-power laser hazards, and laser pointer safety guidelines. 16 Minutes (10 min. video + 6 min. test) STD 01-05-001 - PUB 8-1.7 For specific procedures, be sure to refer to your location's policies and procedures.	:16
40328	Lead Awareness	E	Before you cut, grind, or burn through any painted surface at work or at home, better make sure you know what you're dealing with. Protect yourself and your team from unintentional lead exposure with this computer-based training module that defines what lead is and provides information on its history and usage, reduction efforts, lead exposure, effects, detection and treatment, personal protective equipment (PPE), and prevention methods. 15 Minutes (9 min. video + 6 min. test) 29 CFR 1910.1025 For specific procedures, be sure to refer to your location's policies and procedures.	:15
40330	Lockout Tagout	E, S	Don't count on luck, count on the lock. Protect yourself and your team from unintentional exposure to all types of hidden energy with this computer-based training module that describes hazardous energy types and energy control procedures, including preparation, shutdown, isolation, lockout, stored energy check, verification, and release of lockout. Additional topics include lockout hardware and administration of an Energy Control Program (ECP). 18 Minutes (11 min. video + 7 min. test) 29 CFR 1910.147 For specific procedures, be sure to refer to your location's policies and procedures.	:18
40332	Pedestrian Safety	E, S, DE	Simple adjustments and minimal re-design of a workstation is often all that's needed for a worker to avoid the muscle and soft tissue strains that are associated with PC-based and desk-bound jobs. Adopting the neutral position and principles of dynamic movement presented in this training course can increase productivity even as it decreases injuries.	:12

40333	Personal Protective Equipment	E, S	Every day, someone decides to give up their sight, hearing, fingers, toes, or worse to save a few seconds of effort. Sure it can be inconvenient and uncomfortable, but properly using personal protective equipment (PPE) sure is better than many unfortunate alternatives. Use this computer-based training module to educate yourself and your team on head protection, eye and face protection, hand protection, foot protection, respiratory protection, and hearing protection. 18 Minutes (11 min. video + 7 min. test) 29 CFR 1910.132	:18
40337	Radiation Safety	E	Every day, someone decides to give up their sight, hearing, fingers, toes, or worse to save a few seconds of effort. Sure it can be inconvenient and uncomfortable, but properly using personal protective equipment (PPE) sure is better than many unfortunate alternatives. Use this computer-based training module to educate yourself and your team on head protection, eye and face protection, hand protection, foot protection, respiratory protection, and hearing protection. 18 Minutes (11 min. video + 7 min. test) 29 CFR 1910.132	:20
40338	Respirators - EHS	E	Breathe easier with a better understanding of how to select, use, and maintain your respirators. This computer-based training module provides an overview of respirator types, including air-purifying and air-supplying technologies. Use this module to learn about the need for respirators, the proper use of respirators, filter types, fit testing, washing, inspection, and storage. 62 Minutes (39 min. video + 23 min. test) 30 CFR Part 46.5.c.1	:62
40341	Storm Water Pollution Prevention	E	Do your part to keep our rivers, streams, and lakes clean and stay compliant. This computer-based training module provides an overview of the storm water pollution problem and the regulatory measures in place to help avoid pollution from rainwater runoff. Topics discussed include physical and operational best management practices (BMPs), housekeeping, pollution prevention, material management practices, spill prevention and response, and waste management. Catch basins, secondary containment, flow diversion, and bioretention are also covered in this material based on Environmental Protection Agency (EPA) regulations. 21 Minutes (13 min. video + 8 min. test) EPA Regulations	:21
40353	Hot Work Permits	E	Hot work permits, when correctly completed and implemented, are a key safety tool when workers are on the job. This Web-based training course contains information and interactions to help workers understand hot work conditions, the permit process, and working safely with a flame or spark-producing tools in areas with flammables or explosives (including dust).	:15
40354	Incident Investigation - CM	E	With this course, team leaders will learn how to complete an incident investigation for accidents and near misses—from initial response through team formation, root-cause analysis, and corrective actions with follow-up. Safety-related incidents can make work and the workplace safer—if they are systematically investigated and corrected to prevent their recurrence.	:35
40355	Shipping Hazardous Materials - CM	E	Packing, marking, documenting, and shipping hazardous materials involve compliance with complex regulations intended to reduce the chances of environmental catastrophes and injuries during shipping and handling. This course teaches workers about the safety requirements, compliance issues, and legal necessities involved in shipping hazardous materials.	:35
40360	Escape Respirators and SCSRs - EHS	E	Don't let smoke, fumes, or toxic gases keep you from getting to safety in an emergency. Use this training to prepare yourself and your team with a working knowledge of escape respirators. This computer-based training module describes the different types of escape respirators and self-contained self-rescuers (SCSRs), as well as inspecting, caring for, donning, and using them. Additional topics discussed include atmospheres immediately dangerous to life and health (IDHL) and transferring to a new SCSR when necessary. 23 Minutes (15 min. video + 8 min. test) Based on 30 CFR Part 46.5.c.1	:24
40485	Hot Work Safety	E, S	Before welding, cutting, or brazing metal or performing any work that could generate enough heat or sparks to start a fire, everyone involved should be properly trained on the fundamentals of hot work safety. Based on FPA 51B and 29 CFR Subpart Q regarding welding, cutting, brazing, and other hot work.	:15
40495	Emergency Action Plans	E	Based on OSHA standards and recognized industry best practices, this course is intended as an introduction or refresher course for general industry workers and those responsible for developing an emergency action plan.	:16
40496	Hydraulic Fluid Safety	E, S	From bottle jacks to forklifts and shop equipment, this course provides important information on the principles of hydraulics and the hazards that hydraulic systems can present.	:27
40532	Lead Based Paint Safety	E	Even though U.S. legislation passed in 1978 has dramatically limited the allowable lead levels in paint, lead-based paint is still present in many residential and commercial buildings.	:28

40551	Safety and Health - Basic	E	This module covers basic guidelines and best practices for safety in a variety of industrial workplaces. From identifying and avoiding common workplace hazards to housekeeping and incident reporting, this course provides the fundamental elements critical to establishing safe work habits for yourself and your team.	:21
40574	Safety and Health - Advanced	E	Based on OSHA standards and recognized industry best practices, it is intended as an introductory or refresher course for general industry workers who will either operate or work near floor-controlled overhead cranes.	:22
40727	Hand Washing and Hygiene	E	Knowing proper hand hygiene techniques, the routes of hand contamination, the importance of the time spent washing the hands, and the difference between soaps and sanitizers will help keep you and your co-workers safe from the many foodborne illnesses that surround us.	:15
40728	Hazard Communication 2012	E	Many workplaces use hazardous chemicals. But, it's not always easy to understand the various labeling requirements for these chemicals and the information provided to employees about the hazards these chemicals present. Concern and confusion about these issues increased when OSHA updated its Hazard Communication Standard in 2012 so "HazCom" would more closely align with the Globally Harmonized System (GHS).	:37
41000	Arc Flash Safety	E	An arc flash is a type of electrical explosion. It's a serious hazard when working on or near energized electrical equipment. OSHA requires that all employees understand the electrical hazards to which they are exposed. This course introduces the dangers of arc flash and presents common methods for preventing and protecting against those dangers. It's based primarily on the National Fire Protection Association (NFPA) 70E® "Standard for Electrical Safety in the Workplace," which is the recognized industry resource in the United States for best electrical work practices. Based on: •NFPA 70E® "Standard for Electrical Safety in the Workplace" •Industry best practices •Contributions by Bob Ruggles, electrical expert and safety trainer, of Electrical Diagnostic Surveys	:24
41001	Heat Stress Causes	E	Heat stress is a serious concern in many workplaces. Every year heat stress affects thousands of people, and some die as a result. This course provides the information you'll need to "beat the heat" and keep yourself and other workers safe. You'll learn about the different types of heat stress, from the least severe (heat rash) to the most severe (heat stroke). It will explain how the body reacts to heat, and the causes of heat stress. Finally, it will list some factors that affect how individuals tolerate heat. Based on: •The General Duty Clause of the Occupational Safety and Health—Section 5(a)(1) •Materials from OSHA and state labor agencies on heat exposure •Current scientific and medical findings •Accepted best work practices for preventing heat exposure	:21
41002	Sexual Harassment Awareness	E	In 2010, more than 11,000 sexual harassment claims were filed with the United States Equal Employment Opportunity Commission (EEOC). The EEOC states that it is illegal to harass a person (an applicant or an employee) because of that person's sex. Sexual harassment can include unwelcome sexual advances, requests for sexual favors, and other verbal or physical harassment of a sexual nature. This course defines the term "sexual harassment" and explains the different forms it can take. It also delves into the negative effects sexual harassment has on both an individual and on the workplace as a whole, and suggests appropriate responses to sexual harassment. Based on: •OSHA 29 CFR 1604.11: Sexual Harassment •Civil Rights Act of 1964: Title VII •U.S. EEOC policies	:18
41003	Valve Basics	E	Valves are used throughout most industrial work places, but what do you know about them? Given their importance, it's surprising that many people don't know what valves do or how they do it. This course offers a solid introduction to many basic concepts related to the valves used in general industry. So whether you're a complete novice, filling some gaps in your knowledge, or just brushing up, Valve Basics has the information you're looking for.	:29

41004	Valve Performance	E	You may know how valves work, but do you know how to select the right valve for the job based on its performance characteristics? If not, this is the course you've been looking for. Learn all the basic concepts and terms for evaluating a valve, including those for the amount of fluid that can flow through a given valve in a period of time, the distance the valve stem travels from the open to closed position and the relationship between the valve travel distance and the corresponding changes in flow rate. You'll also discover how the performance of a valve can change after it's installed in a real system with varying conditions, how well a valve can withstand pressure and prevent leakage, and how control systems can be used to increase the efficiency of valves.	:18
41055	Toolbox Talk - Back Safety	E	Back injuries are one of the most common workplace injury and can lead to years of discomfort and disability. Learning how to adapt to each work environments' unique back safety hazards is key in avoiding cumulative and acute back injuries.	:07
41056	Toolbox Talk - Building a Safety Culture	E	Safety culture can be thought of as the values, beliefs, perceptions and normal behaviors that are shared by employees. Every company has a safety culture, intentional or not, but is it what they want it to be? Is the safety culture positive or negative? And what can be done to change it?	:08
41057	Toolbox Talk - Cost of an Incident	E	Every incident has a cost that affects both the employee and the employer. In either case, the employee who was injured will be the one who pays the most.	:05
41058	Toolbox Talk - Fatigue Avoidance	E	Fatigue is one of the leading causes of injury at the workplace and at home. Being fatigued while working can cause operator impairment and has been proven to be as dangerous as drunk driving with the same increased risk of injury and death. In this course, you'll learn the dangers of working while fatigued and tips for avoiding fatigue on a daily basis.	:08
41059	Toolbox Talk - Safe Use of Cell Phones	E	Using a cell phone improperly at your job site can pose dangers to you and your coworkers. A person using a cell phone will be less attentive to their job and can be distracting to nearby co-workers. Inattention and distraction can lead to personal injury or property damage.	:07
41060	Toolbox Talk - Common Safety Mistakes	E	When working in industrial situations or operating heavy equipment, some of the most dangerous situations arise out of common mistakes that can be easily avoided. Common safety mistakes include a lack of housekeeping, not using Lockout/Tagout on equipment needing repair, improper use of PPE , not having a process or a plan, and a failure to communicate.	:08
41180	5S Methodology	E	Is your workplace a mess? Tired of spending hours searching for the right tool? This training module will teach you about the 5S methodology, which focuses on organizing and standardizing the workplace to increase efficiency and effectiveness. Its five principles, sorting, straightening, sweeping, standardizing and sustaining, will make you and your co-workers better prepared to accomplish all of your tasks while being safer and more efficient in the process.This training module will teach you about the 5S methodology, which focuses on organizing and standardizing the workplace to increase efficiency and effectiveness. Its five principles, sorting, straightening, sweeping, standardizing and sustaining, will make you and your co-workers better prepared to accomplish all of your tasks while being safer and more efficient in the process.	:21
41181	Adult Learning	E	People learn in a variety of different ways. That is why it is critical to understand the basics of adult learning when training people at work. This course explains how people learn and lists specific principles of adult learning. It also covers different learning styles and the importance	:20
41182	Back Injury Prevention	E	If you work with heavy loads or repeatedly twist to move materials from one location to another, you may be at a greater risk of back injury. Back injuries are suffered by more than one million workers every year, account for twenty percent of all workplace injuries, and cost companies billions of dollars. This course will help prevent back injuries at your workplace by raising awareness about the common causes of acute and cumulative back injuries, signs and symptoms of back injuries, and the engineering and administrative controls that can be implemented to prevent back injuries.	:23
41187	Centerlining Methodology	E	Centerlining is a methodology used to reduce product and process variability and increase machine efficiency in manufacturing and other industrial processes. The two objectives of Centerlining are to determine the best settings for a production process and to ensure the best settings are always used during production. This course illustrates the key concepts of Centerlining and will guide your production team to produce products that are consistently made, which leads to satisfied customers and lower costs.	:24

41188	Conflict Management	E	When people work together, there will inevitably be disagreements. Some of these disagreements are minor, but some can turn into major conflicts. If conflicts are not resolved, they can lead to long-term tension and unhappiness amongst employees. This course illustrates how to resolve conflicts using the SLOW method, reasons for different points of view, and tips for face-to-face communication. Following the ideas in this course can help your team use conflict situations as an opportunity to solve work or personal problems, and therefore become more productive and unified.	:23
41189	Equipment Maintenance and Reliability	E	In industrial facilities, it is extremely important that the equipment runs smoothly and reliably. If proper maintenance is not done regularly, it can cost a company thousands of dollars, and potentially compromise the safety of its workers.This course answers the questions: What is equipment maintenance? Why is it so important? and what are the benefits of maintaining equipment? It also covers some safety and work guidelines related to performing equipment maintenance.	:18
41190	Meeting Customer Expectations	E	Meeting the needs and expectations of the customer is important in any successful product design. Waste, products with inconsistent-quality, and even a poor company reputation can lead to not meeting customer expectations. This course focuses on ways to discover the needs and expectations of the customer, the different categories of product features, and the importance of following established production procedures.	:18
41191	NFPA 70E Introduction	E	NFPA 70E is the “Standard for Electrical Safety in the Workplace.” It establishes safe practices for working with or near electrical equipment and was created to protect workers from two major electrical dangers, electric shock and arc flash. This course provides an introduction to NFPA 70E and summarizes some of its important safety guidelines, including safety boundaries around electrical equipment, personal protective equipment requirements, and some requirements for electrical equipment and devices.	:24
41192	OJT Mentoring	E	On-the-job training programs can be very productive when properly structured. This course provides tips to help make people more effective OJT mentors, including explaining the structure of an OJT team, providing four questions to ask before training begins, stressing the importance of a training plan, giving tips for being a good mentor, explaining how to evaluate the OJT mentor and program, and more.	:28
41193	Overhead Crane Operational Safety	E, S, DE	This training module gives workers an overview of the safe operating procedures for moving loads with floor-operated overhead industrial cranes. This course covers the dangers associated with lifting and moving a load with an overhead crane, as well as safe procedures that will avoid those dangers. This course is based on relevant standards for overhead crane safety from OSHA, ANSI, and ASME, as well as recognized general industry best practices. Using clear, concise 2D and 3D diagrams and animations OSHA 29 CFR 1910.179 – Overhead and Gantry Cranes American National Standards Institute (ANSI) best practices American Society of Mechanical Engineers (ASME) best practices	:16
41195	Problem Solving Strategies	E	Problems arise in the workplace on a daily basis. Often times, they can be very difficult and time consuming to solve. Approaching the problem with a structured plan can help improve your efficiency, determine hidden causes, and increase the likelihood that your solution will actually fix the problem. This course illustrates key concepts using a step-by-step plan for a real world example, along with practical tools and strategies like the “5 Whys” technique, that you can use when troubleshooting problems in your workplace.	:24
41196	Process and Instrumentation Diagrams	E	Process and Instrumentation Diagrams, also known as P&IDs, are basically maps meant to show process connections and equipment relationships pictorially. They are invaluable during the planning and installation of new equipment, maintenance planning and procedures, and when comparing as-installed controls to the original design. This module will discuss how P&IDs are used, how to read the symbols used on P&IDs, and a real world examples of a P&ID system	:40
41197	Process Control Charts	E	Many production facilities use process control charts to track and visually show the behavior and stability of a process over time. This course covers the benefits of using process control charts, the importance of consistency, the many kinds of process control charts, the different elements of process control charts, and how to continually improve the production process. This module will discuss how P&IDs are used, how to read the symbols used on P&IDs, and a real world examples of a P&ID system	:23

41198	Table Saw Basics	E	Table saws are essential tools used to accurately cut lumber and sheet materials like plywood and particleboard. This course discusses the location and function of the major components of a typical table saw and safety guidelines to follow while working on and around a table saw. It concludes by illustrating how to adjust the blade height and blade tilt, as well as how to square the blade and set the cut width. Understanding the table saw will allow you to use the saw properly and effectively, and will help prevent you or your co-workers from being seriously injured.	:23
41199	Understanding Facility Costs	E	Reducing costs will make your facility more profitable and more successful. The more successful your facility is, the more job security and opportunities for success you and your coworkers will have. This course discusses the relationship between the business terms: revenue, cost and profit and illustrates the importance of identifying areas to reduce waste at the facility where you work, even when they are small.	:16
41200	Violence in the Workplace	E	Every year in the U.S., there are an estimated 2 million reported cases of workplace violence. NIOSH defines workplace violence as any act or threat of physical violence, harassment, or intimidation that occurs in the workplace. It can be instigated by criminals, customers, co-workers, or someone you have a personal relationship with. This course will raise awareness of the consequences of workplace violence and describe how to recognize warning signs so you and your coworkers can avoid these dangerous situations.	:18
41201	Conveyor Safety	E	Conveyors are involved in about 50 deaths in the U.S. every year. When used properly, conveyors can reduce workloads, make production more efficient, and prevent injuries that result from carrying materials manually. This course will discuss the most common types of conveyors and their hazards, the types of guarding around conveyors, general conveyor safety, and what to do during and after an emergency. Taking this course and understanding the hazards conveyors present will help keep you and your co-workers safe.	:26
41510	Trenching and Excavating Safety	E	This course is meant to be used as an introductory or refresher course for construction workers involved in digging or working in an excavation. It is based on OSHA Construction regulations and industry best practices.	:26
41523	Forklift Training - Reducing Property Damage	E	This course is meant to be used as an introductory or refresher course for forklift operators. It is based on research of the most common types of forklift product damage and on industry best practices.	:24
41524	Machine Guarding	E, S	This course is meant to be used as an introductory or refresher course for general industry workers who will be operating or working near industrial machinery.	:15
41525	Slips, Trips and Falls	E	Based on OSHA standards, this course helps raise awareness of the root causes of falls on the same level and the serious nature of the resulting injuries, fatalities, and property damage. From identifying the leading scenarios which can lead to fall-related injuries and fatalities to reporting and prevention, this course provides the fundamental elements critical to establishing safe work habits for yourself and your team.	:16
41526	Supported Scaffold Safety	E	This course is intended as an introductory or refresher course for construction and general industry workers who will be working on or near scaffold systems.	:40
41527	Trenching and Excavating Soil Properties	E	This course is meant to be used as an introductory or refresher course for construction workers who will be digging or working in excavations. It is based on OSHA excavation regulations and on recognized best practices.	:15
41529	Job Hazardous Analysis	E	The Hazard Communication Standard • Workplace chemicals • Chemical exposure • Chemical labels • MSDS • PPE • Controlling physical and health hazards	:16
41530	Flammable and Combustable Liquids	E	Based on OSHA standards, this course helps raise awareness of the potential hazards presented by common workplace products while offering practical instruction on labeling, storage, handling, and managing spills and waste to help establish safe work habits for yourself and your team.	:24
41729	Table Saw Operations	E	Table saws are essential tools used to accurately cut lumber and sheet materials like plywood and particleboard. This course discusses the location and function of the major components of a typical table saw, safety guidelines to follow while working on and around a table saw, several different cut types that can be performed by a table saw, and the techniques used make those cuts. Understanding how the table saw operates will allow you to use it properly and effectively, and will help prevent you or your co-workers from being seriously injured.	:20

41730	Wire Rope Safety and Operation	E	Wire ropes are used on machines that lift and move heavy loads. Because of the potentially high loading on wire ropes, they can be one of the most dangerous pieces of equipment at a worksite. In this course, you will learn which personal protective equipment to wear while using wire ropes, safety guidelines for working with wire ropes, and how to recognize potential wire rope hazards. Because of the potential for accidents, knowing how to properly use and safely work around wire ropes is crucial to your safety and the safety of your co-workers	:18
41731	Ergonomics for Industrial Environments	E	Every year, hundreds of thousands of workers are diagnosed with musculoskeletal disorders, or MSDs. Understanding how to recognize and reduce the stress on your body from your daily work environment will help greatly reduce the likelihood of developing an MSD. This course discusses MSD prevention techniques in industrial environments, including engineering and administrative controls as well as motion-based, physical, environmental, and psychological risk factors associated with MSDs. Following the tips and guidelines illustrated in this course will reduce your chances of suffering from an MSD and help you have a healthy, productive work experience. Regulations: OSHA Ergonomic Guidelines.	:29
41732	Safety Showers and Eye Washes	E	Chemicals are frequently used and stored in industrial environments. It is imperative to handle them with care and wear appropriate PPE to avoid exposure. If an accident does occur, however, safety showers and eye washes can be used to cleanse the affected area and decrease the extent of injury. Knowing use procedures, maintenance practices, and the locations of safety showers and eye washes will reduce the risk of serious injury and lead to safer conditions in the workplace. 29 CFR 1910.151 (c)	:28
41887	Toolbox Talk - Operator Visibility Around Heavy Equipment	E	This course covers visibility hazards around heavy equipment and common methods used to help ensure the safety of the operator and other nearby workers. This training illustrates observing and inspecting the conditions of the worksite and equipment. It is designed to generate discussion on potential low visibility situations and possible safety controls that could increase visibility around heavy equipment.	:07
42187	Line Breaking Safety	E	Line breaking is the intentional opening of a pipe, line, or duct that contains or has contained material capable of causing injury. OSHA requires that all members of a line breaking team understand the hazards related to the material and equipment involved. This 3D-animated course illustrates common hazards of line breaking and provides suggested preventative measures for this type of work. Based on general industry best practices and OSHA regulations, this course covers basic safe work procedures recommended by industry professionals when planning or working on a line break.	:39
42189	Crane and Hoist Rigging Safety	E, S, DE	Setting up safe and secure rigging for a crane lift is of the utmost importance; possibly more important than the operation of the crane itself. This training module gives an overview of the primary rigging issues that affect crane and hoist safety. Workers will learn about the materials used for rigging and slings, the various sling hitches used, and basic safety precautions. It is based on OSHA General Industry and Construction regulations, as well as recognized best rigging practices. It is also aligned with the 2010 OSHA regulations that require riggers in the construction industry to be qualified.	:32
41773	Overhead Crane Basics	E,S,DE	This training module covers the basic components and functions of floor-operated overhead cranes used in industrial facilities. It also covers the inspections of cranes and rigging components that many facilities require to be performed before a crane can be operated. Regulations: OSHA 29 CFR 1910.179: Overhead and Gantry Cranes American National Standards Institute (ANSI) best practices American Society of Mechanical Engineers (ASME) best practices	:20

Caterpillar University

Mine Safety & Health Administration (MSHA) Training (27 Courses)

Course Number	Course Title	Language	Course Description	Course Duration
40296	Chemical Hazards	E	This module discusses ways to recognize and avoid chemical hazards present at a working mine. Reference: 30 CFR Part 46.5.b.2	:15
40305	Emergency Procedures	E	This module explains procedures to follow during an emergency situation, including emergency procedures, warning signals, evacuations, and reporting, as well as specific procedures to follow during fires. Reference: 30 CFR Part 46.5.b.3	:24
40306	Environmental Hazards	E	This module provides an overview of environmental hazards common to surface mines. Reference: 30 CFR Part 46.5.b.2	:18

40307	Equipment Hazards	E	This module discusses how to recognize and avoid hazards associated with mobile equipment and stationary machinery on the job site. Reference: 30 CFR Part 46.5.b.2	:33
40309	Escape Respirator and SCSRs - MSHA	E	Don't let smoke, fumes, or toxic gases keep you from getting to safety in an emergency. Use this training to prepare yourself and your team with a working knowledge of escape respirators. This computer-based training module describes the different types of escape respirators and self-contained self-rescuers (SCSRs), as well as inspecting, caring for, donning, and using them. Additional topics discussed include atmospheres immediately dangerous to life and health (IDHL) and transferring to a new SCSR when necessary. 24 minutes / 30 CFR Part 46.5.c.1 For specific procedures, be sure to refer to your location's policies and procedures.	:24
40361	First Aid for Common Injuries - MSHA	E	Unfortunately, everybody gets hurt at some point. Use this course to prepare yourself and your team to recognize the symptoms of and provide first aid for various common injuries and illnesses. This computer-based training module discusses concussions, eye injuries, burns (heat and chemical), fractures, dislocations, bites (insect, animal, and human), and environmental exposure emergencies such as heatstroke, hypothermia, and dehydration. 42 minutes / 30 CFR Part 46.5.c.2	:42
40362	First Aid for Emergencies - MSHA	E	Be prepared to help in emergency situations. Use this computer-based training module to prepare yourself and your team to recognize the symptoms of and provide first aid in various life-threatening emergency situations. A broad range of common emergencies are discussed, including heart attack, cardiac arrest, shock, choking, stroke, blood loss, amputations, poisoning, seizures, drug overdose, diabetic emergencies, and loss of consciousness. 28 minutes / 30 CFR Part 46.5.c.2	:28
40363	First Steps in All First Aid Situations - MSHA	E	The first moments of every emergency situation are always the most critical. Use this computer-based training module to learn about the "DR. ABC" method and the importance of quickly calling 9-1-1. This course also explains how and when to perform artificial respiration and CPR, as well as how to use an automatic or semiautomatic external defibrillator (AED). 32 minutes / 30 CFR Part 46.5.c.2	:32
40365	General Physical Characteristics of Surface Mines	E	This module illustrates the physical characteristics common to most surface mines. Reference: 30 CFR Part 46.5.b.1	:09
40322	Hazard Overview	E	This module provides an overview of the Hazard Recognition and Avoidance activity of the Surface Miner Training curriculum. Reference: 30 CFR Part 46.5.b.2	:06
40329	Line of Authority	E	This module describes the general line of authority at a mine including the responsibilities of supervisors, miners' representatives, and designated safety personnel. Reference: 30 CFR Part 46.5.b.6	:12
40331	Maintaining and Repairing Equipment	E	This module provides an overview of health and safety aspects of tasks related to hazards when maintaining and repairing equipment. Reference: 30 CFR Part 46.5.b.4	:21
40339	Miners Rights and Legal Responsibilities	E	This module summarizes the rights of miners and their representatives as well as miners' specific legal responsibilities as granted by the Mine Act. Reference: 30 CFR Part 46.5.b.5	:16
40334	Physical Hazards	E	This module reviews common physical hazards at surface mines, including electricity, noise, and explosives. Reference: 30 CFR Part 46.5.b.2	:18
40335	Preventing Accidents	E	This module reviews the major causes of accidents and covers best practices for accident prevention, including fall prevention, safe equipment operation, proper lifting methods, and dealing with stress and fatigue. Reference: 30 CFR Part 46.5.b.4	:18
40364	Respirators - MSHA	E	Breathe easier with a better understanding of how to select, use, and maintain your respirators. This computer-based training module provides an overview of respirator types, including air-purifying and air-supplying technologies. Use this module to learn about the need for respirators, the proper use of respirators, filter types, fit testing, washing, inspection, and storage. 62 minutes / 30 CFR Part 46.5.c.1	:62
40340	Site Rules and Hazard Reporting	E	This module summarizes the general rules and procedures a miner should follow when reporting hazards to supervisors and to MSHA. Reference: 30 CFR Part 46.5.b.7	:12
40349	Surface Mine Development, Operations, and Reclamation	E	This module provides an overview of the types of mining, the lifecycle of a mine, and general mining operations. Reference: 30 CFR Part 46.5.b.1	:15
40443	Typical Surface Mining Equipment	E	This module offers an introduction to equipment common to most surface mining operations. Reference: 30 CFR Part 46.5.b.1	:08
40344	Using Personal Protective Equipment	E	This module focuses on the use of personal protective equipment including physical protection, hearing protection, and improved visibility. Reference: 30 CFR Part 46.5.b.4	:24
40345	Working Around Equipment	E	This module provides an overview of health and safety aspects of tasks related to hazards when working around equipment. Reference: 30 CFR Part 46.5.b.4	:21
40346	Working at Night	E	This module provides an overview of health and safety aspects of tasks related to hazards when working at night. Reference: 30 CFR Part 46.5.b.4	:06
40347	Working in a Confined Space	E	This module provides an overview of health and safety aspects of tasks related to hazards when working in a confined space. Reference: 30 CFR Part 46.5.b.4	:21

40348	Working on or Near Water	E	This module provides an overview of health and safety aspects of tasks related to hazards when working near water. Reference: 30 CFR Part 46.5.b.4	:06
41511	Working with Chemicals	E	This course discusses ways to recognize and avoid chemical hazards present at a working mine.	:24
40349	Working with Electricity	E	This module provides an overview of health and safety aspects of tasks related to hazards when working with electricity. Reference: 30 CFR Part 46.5.b.4	:15
40350	Working with Explosives	E	This module provides an overview of health and safety aspects of tasks related to hazards when working with explosives. Reference: 30 CFR Part 46.5.b.4	:06

Caterpillar University

Strategies for Safey Management (12 Courses)
(Take Courses in Consecutive Order)

Course Number	Course Title	Language	Course Description	Course Duration
41512	Supervisor - Strategies for Safety Management: Module 1	E	Module 1: Introduction The Strategies for Safety Management introduction module defines the scope of the course by looking at the over-arcing concepts behind a sustainable culture. • Accountability is essential to establish a culture of safety excellence • Proactive roles and responsibilities drive results • The imperative of safety is equal to quality and productivity	:20
41513	Supervisor - Strategies for Safety Management: Module 2	E	Module 2: Why Safety Accountability? The role of accountability is essential to ensure that the work gets done. Here, supervisors learn why accountability is proven to impact behavior, which drives safety performance. • The real meaning behind the Accident Pyramid • Why accidents happen • Why we focus on at-risk behaviors • The trouble with "faux safety" • mportance of attitudes and beliefs • The role of safety rules	:20
41514	Supervisor - Strategies for Safety Management: Module 3	E	Module 3: Define Every system of accountability needs to begin by defining the activities that can be measured. Without any definitions, the "safety do's" are a moving target and end up as afterthoughts. • Safety Activities vs. Safety Results • Safety actions by job function • Why accountabilities need to be clear and measurable	:20
41515	Supervisor - Strategies for Safety Management: Module 4	E	Module 4: Train As a supervisor, it's essential to lead, manage, support and develop - the sum of training functions to empower all employees.: • Leadership vs. Management • Leadership styles • Understanding behaviors • The Training Sequence • Orienting new employees	:20
41516	Supervisor - Strategies for Safety Management: Module 5	E	Module 5: Measure Supervisors learn the "how and why" of measuring accountabilities and the leading indicators that drive safety-performance results. • What to measure • How to measure quantity and quality • Why inspections are a form of measurement • How to ensure activities are measurable	:20

41517	Supervisor - Strategies for Safety Management: Module 6	E	Module 6: Reward This is the lesson that provides insight into the role of rewards and the strategies to foster employee involvement and initiative. • How to define and create rewards • How rewards motivate • The meaning of a meaningful reward • Why a solid reward system shouldn't be confused with a gimmick • How rewards help overcome complacency	:20
41519	Supervisor - Strategies for Safety Management: Module 7	E	Module 7: Role of the Supervisor This lesson focuses on the specific activities of supervisors and foremen, and the people they oversee to ensure everyone is able to carry out his or her responsibilities effectively. • Activities vs. Results • Employee vs. supervisor activities • Safety and production similarities • Clear communication	:20
41520	Supervisor - Effective Communication: Module 1	E	Module 1: How We Communicate Not only does the first module describe the interpersonal communication "how-to's," but it provides the big picture behind what it means to speak up and encourage others to do the same. • Why effective communication is essential. • How to communicate with respect. • The impact of nonverbal communication. • The "two-way street" for actively speaking up and listening up.	:20
41521	Supervisor - Effective Communication: Module 2	E	Module 2: Positive Feedback & Responsive Listening People might be speaking up, but who's really listening? This module presents the strategies and steps to foster responsive listening skills whenever faced with a potentially unsafe situation. • The importance of speaking up and straight talk to ensure a safe mindset. • Address the fears and excuses that keep people from being responsive listeners. • The steps for giving and receiving effective feedback.	:20
41522	Supervisor - Effective Communication: Module 3	E	Module 3: Recognition Strategies Effective recognition - rewarding safe behaviors - fosters a work environment where people are more willing to speak up and listen up. Here, you'll learn the tactics to put the focus on what workers do right. • How recognition motivates and encourages involvement. • Why recognition is essential to effective communication. • The importance of communicating expectations for safe actions and behaviors.	:20
41715	Supervisor - Near Miss Reporting: Module 1	E	Module 1: The Power of a Near Miss In this lesson, you'll learn about near misses, and how to fix them. Key points include: • What is a near miss? • Why should anyone report one? • Why is reporting important? • Why is everyone responsible for reporting near misses? • How do we all benefit from near miss reporting and resolution ?	:20
41716	Supervisor - Near Miss Reporting: Module 2	E	Module 2: Near Miss Leadership By the end of this lesson, you will learn about: • Speaking out and listening to others about near misses. • Making near misses more visible. • Tying near misses to job responsibilities. • Getting everyone to welcome near misses as opportunities.	:20

Caterpillar University

Corporate Account Customer Operator Training (17 Courses)

Course Number	Course Title	Language	Course Description	Course Duration
41128	Operator Career Development Program: Articulated Trucks - Heavy Construction (725-740)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on articulated truck controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a articulated truck.	1:00
40359	Operator Career Development Program: Backhoe Loaders - General Construction (416E-450E)	E	This course is intended to provide training for beginner operators and individuals who wish to improve their knowledge on backhoe loader controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a backhoe loader.	1:00
40051	Operator Career Development Program: Hydraulic Excavators - General Construction (301.5-318C)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on hydraulic excavator controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a hydraulic excavator.	1:00
40052	Operator Career Development Program: Hydraulic Excavators - Heavy Construction (320B-350)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on hydraulic excavator controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a hydraulic excavator.	1:00
40053	Operator Career Development Program: Hydraulic Excavators - Quarry/Mining (365B-5230B)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on hydraulic excavator controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a hydraulic excavator.	1:00
41298	Operator Career Development Program: Motor Graders - Heavy Construction (120 - 12M)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on motor graderr controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a motor grader.	1:00
40054	Operator Career Development Program: Off-Highway Trucks - Heavy Construction (769C-775F)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on off-highway truck controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate an off-highway truck.	1:00
40055	Operator Career Development Program: Off-Highway Trucks - Quarry/Mining (777B-797B)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on off-highway truck controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate an off-highway truck.	1:00
40059	Operator Career Development Program: Track-Type Tractors - General Construction (D3G-D5G)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on track-type tractor controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a track-type tractor.	1:00
40060	Operator Career Development Program: Track-Type Tractors - Heavy Construction (D6T-D8T)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on track-type tractor controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a track-type tractor.	1:00

40061	Operator Career Development Program: Track-Type Tractors - Quarry/Mining (D9T-D11R)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on track-type tractor controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create an experienced operator who can safely operate a track-type tractor.	1:00
40056	Operator Career Development Program: Wheel Loaders - General Construction (904B-936G)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on wheel loader controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a wheel loader.	1:00
40057	Operator Career Development Program: Wheel Loaders - Heavy Construction (938F-980H)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on wheel loader controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a wheel loader.	1:00
40058	Operator Career Development Program: Wheel Loaders - Quarry/Mining (988H-994F)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on wheel loader controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a wheel loader.	1:00
40050	Operator Career Development Program: Wheel Tractor - Scrapers - Heavy Construction (613G - 627G)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on wheel tractor-scraper controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a wheel tractor-scraper.	1:00
40049	Operator Career Development Program: Wheel Tractor-Scrapers - Quarry/Mining (631G-657G)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on wheel tractor-scraper controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a wheel tractor-scraper.	1:00
41534	Operator Career Development Program: Motor Graders - Quarry/Mining (14M - 24M)	E	This course is intended for beginner operators and individuals who wish to improve their knowledge on motor graderr controls and their maintenance, inspection, safety, and operating procedures. This course contains only theoretical content and shows or demonstrates pre-operating and basic operating procedures. This course does not attempt to create and experienced operator who can safely operate a motor grader.	1:00

Caterpillar University

Public Customer Service Training (~90 Courses)

Course Number	Course Title	Language	Course Description	Course Duration
28441	Air Brake System Course	E	This course covers basic operating systems of brakes used on Caterpillar equipment. The systems include the Mechanically Activated & Hydraulically Boosted Brake System, the Hydraulically Boosted Brake System, the Air Brake System, the Air Over Hydraulic Brake System and the Hydraulic Accumulator Brake System. In each of the systems the major components will be described, location shown, and explained how they rely on the use of friction to convert motion into heat, in order to slow, stop, and/or hold the machine stationary.	2:45
20187	Air Management Systems Course	E	This course covers identification, operation, diagnosis, and service procedures for the different types of air management systems used on Caterpillar diesel engines. Major systems covered include naturally aspirated, turbocharged, turbocharged aftercooling, series turbocharged, and exhaust aftertreatment. In addition, exhaust brakes, compression brakes, and inlet valve actuation are covered.	2:15
28440	Air Over Hydraulic Brake System	E	This course covers basic operating systems of brakes used on Caterpillar equipment. The systems include the Mechanically Activated & Hydraulically Boosted Brake System, the Hydraulically Boosted Brake System, the Air Brake System, the Air Over Hydraulic Brake System and the Hydraulic Accumulator Brake System. In each of the systems the major components will be fiction to convert motion into heat, in order to slow, stop, and/or hold the machine stationary.	1:00

21471	Basic Air Conditioning A/C Course	E	This course is designed to prepare the technician to state the principles of air conditioning, to identify air conditioning components, to state the components functions, and to service the air conditioning system using the proper tooling.	3:30
33813	Basic TA1 Walk-Around Inspection: Articulated Truck Family	E	Basic TA1 Walk-Around Inspection: Articulated Truck Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on an articulated truck safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: • Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on an articulated truck • Provide your customers with the most reliable equipment possible	1:00
33737	Basic TA1 Walk-Around Inspection: Backhoe Loader Family	E	Basic TA1 Walk-Around Inspection: Backhoe Loader Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a backhoe loader safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: – Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on a backhoe loader – Provide your customers with the most reliable equipment possible	2:00
33492	Basic TA1 Walk-Around Inspection: Commercial Engine Family	E	Basic TA1 Walk-Around Inspection: Commercial Engine Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a commercial engine safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: – Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on a commercial engine – Provide your customers with the most reliable equipment possible	1:00
20932	Basic TA1 Walk-Around Inspection: Hydraulic Excavator Family	E	This course is designed to teach you how to perform a TA1 visual walk-around inspection on a hydraulic excavator (HEX) safely, efficiently, and effectively.	1:30
33771	Basic TA1 Walk-Around Inspection: Motor Grader Family	E	Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a motor grader safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: – Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on a motor grader – Provide your customers with the most reliable equipment possible	1:30
33916	Basic TA1 Walk-Around Inspection: Off-Highway Truck Family	E	Basic TA1 Walk-Around Inspection: Off-Highway Truck Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on an off-highway truck safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: -Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on an off-highway truck -Provide your customers with the most reliable equipment possible will take approximately 1 to 1.5 hours to complete. If for some reason you're not able to complete the course in one sitting, you can re-enter at any time and return to the screen where you left off. However, once you start the post-test, you must finish the test or your results will not be recorded. In addition to the post-test, there are progress checks throughout the program. A score of 85 percent or higher is required on the post-test to successfully pass this courseware. The progress checks are for self-assessment purposes and are not recorded. It's recommended that students who take Basic TA1 Walk-Around Inspection: Off-Highway Truck Family also take the courseware, Basic Preventative Maintenance and PM4 Maintenance Interval Schedule (MIS): Off-Highway Truck Family	1:30
33772	Basic TA1 Walk-Around Inspection: Skid Steer Loader/Multi-Terrain Loader Family	E	Basic TA1 Walk-Around Inspection: Skid Steer Loader/Multi-Terrain Loader Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a skid steer loader and/or a multi-terrain loader safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: – Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on a skid steer loader/multi-terrain loader – Provide your customers with the most reliable equipment possible	1:30
33229	Basic TA1 Walk-Around Inspection: Track-Type Tractor Family	E	This course is designed to teach you how to perform a TA1 visual walk-around inspection on a track-type tractor (TTT) safely, efficiently, and effectively.	1:30
33273	Basic TA1 Walk-Around Inspection: Wheel Loader Family	E	This course is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a Wheel Loader safely, efficiently, and effectively.	1:30
33923	Basic TA1 Walk-Around Inspection: Wheel Tractor-Scraper	E	Basic TA1 Walk-Around Inspection: Wheel Tractor-Scraper Family is designed to teach you how to perform a Technical Analysis (TA1) Visual Walk-Around Inspection on a wheel tractor-scraper safely, efficiently, and effectively. As you proceed through this courseware, you'll learn best practices that will: – Improve your proficiency in performing a TA1 Visual Walk-Around Inspection on a wheel tractor-scraper – Provide your customers with the most reliable equipment possible	1:30

26915	C15 ACERT Engine Performance Course	E	This course covers identification, operation, diagnosis, and service procedures for a mechanically actuated, electronically controlled, unit injector (EUI) fuel system. Caterpillar C15 engines are the focus for this course. The major components of the C15 engine covered include the electronic engine control system, the EUI fuel injector, and injector actuation. The application of Caterpillar Electronic Technician (ET) and digital multimeter (DMM) is introduced. Estimated time 1.40 hours.	1:40
26916	C-9 Engine Performance Course	E	This course covers identification, operation, diagnosis, and service procedures for a hydraulically actuated, electronically controlled, unit injector (HEUI) fuel system. Caterpillar C-9 engines are the focus for this course. The major components of the C-9 engine covered include the electronic engine control system, the HEUI fuel injector, and injector actuation. The application of Caterpillar Electronic Technician (ET) and digital multimeter (DMM) is introduced. Estimated time 2.00 hours.	2:00
26848	Cat 3116 Engine Performance Course	E	This course covers identification, operation, diagnosis, and service procedures for a mechanically actuated unit injector (MUI) fuel system. Caterpillar 3116 engines are the focus for this course. The major components of the 3116 engine covered include the unit fuel injector, injector actuation, injector control linkage, governor, and fuel shutoff solenoid.	1:25
26949	Cat 3406 and 3054 Engine Performance Course	E	This course covers basic diesel engine theory, performance related characteristics, and the identification, operation, diagnosis, and service procedures for “pump and line” fuel systems. The Caterpillar 3406C (inline fuel injection pump) and 3054 (rotary fuel injection pump) are the focus of this course. Major topics include 4 stroke diesel theory, diesel fuel characteristics, engine power curves, fuel injection pumps, fuel injection nozzles, and engine governing.	6:00
28437	Countershaft Transmission Course Introduction	E	This course describes the components and operation of the power shift transmission, driveline, axles and differentials. This course includes information on some operational tests to determine if concerns actually exist. There is also a suggested set of pre-steps to take before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	5:00
40113	ELE C01 - Key Features of Electricity	E,S,C,F	This course is an introduction to the characteristics of electricity.	1:00
40114	ELE C02 - Electrical Schematics	E,S,C,F	This course is an introduction to electrical schematics.	1:00
40115	ELE C03 - Measuring Electrical Circuits	E,S,C,F	This course is an introduction to measuring electrical circuits.	1:00
40018	ELE C04 - Electrical Circuit Types	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electrical circuits.	1:00
40017	ELE C05 - Electrical Circuit Faults	E,S,C,F	This course is an introduction to the identification and diagnosis of electrical circuit faults.	0:30
40016	ELE C06 - Wire Connectors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of wire connectors.	0:30
40015	ELE C07 - Wire Types, Terminals and Harnesses	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of wire types, terminals and harnesses.	0:30
40013	ELE C08 - Circuit Devices	E,S,C,F	This course is an introduction to the correct operation and diagnosis of switches, relays, and resistors.	1:00
40014	ELE C09 - Circuit Protection Devices	E,S,C,F	This course is an introduction to the correct operation and diagnosis of circuit protection devices.	1:00
40028	ELE C10 - Electrical Motors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electrical motors.	1:00
40012	ELE C11 - Semi-Conductors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electronic semi-conductors (diode, Zener diode, and capacitors).	1:00
40019	ELE C12.1 - Electrical Circuit Inputs: Switches	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electronic circuit inputs and switches.	1:00
40029	ELE C12.2 - Position Sensors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electronic circuit input position sensors.	1:00
40042	ELE C12.3 - Electrical Circuit Inputs: Temperature and Pressure Sensors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electronic circuit input temperature and pressure sensors.	1:00
40030	ELE C12.4 - Electrical Circuit Inputs: Speed/Timing Sensors	E,S,C,F	This course is an introduction to the identification, operation and diagnosis of electronic circuit input speed/timing sensors.	1:00
40031	ELE C13 - Circuit Processors	E,S,C,F	In this course you will identify key components and correct operation of the ECM.	1:00
40027	ELE C14 - Circuit Outputs: Components	E,S,C,F	In this course you will identify key components and correct operation of circuit outputs.	1:00
40026	ELE C15 - Battery System	E,S,C,F	In this course you will identify the correct operation, inspection and diagnosis of the battery system.	1:00
40041	ELE C16 - Starting System	E,S,C,F	This course is an introduction to the operation, inspection, and diagnosis of the starting system.	1:00
40062	ELE C17 - Charging System	E,S,C,F	This course is an introduction to the correct operation, inspection and diagnosis of the charging system.	1:00

41134	ER C01 - Cat Diesel Engines	E,S,C,F	This course is an introduction to the identification, operation and visual inspection of the Cat diesel engine and cylinder block. It is necessary for you to be able to identify the normal operation of the diesel engine to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
41135	ER C02 - Diesel Engine Cylinder Block	E,S,C,F	This course is an introduction to the key features of the Cat diesel engine cylinder block. It is important to learn the key features of the engine cylinder block in order to better understand its operation and capabilities.	1:00
41136	ER C03 - Diesel Engine Cylinder Head Assembly	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine cylinder head. It is important to learn the key components of the engine cylinder head in order to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
40434	ER C04 - Diesel Engine Valve Train	E,S,C,F	This course is an introduction to the key components of the valve train assembly. It is important to learn the key components of the valve train assembly in order to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
40435	ER C05 - Diesel Engine Camshaft	E,S,C,F	This course is an introduction to the key components of the diesel engine camshaft. It is important to learn the key components of the camshaft in order to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
40436	ER C06 - Diesel Engine Crankshaft	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine crankshaft. It is important to learn the key components of the crankshaft to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
41300	ER C07 - Diesel Engine Front Gear Train	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine front gear train assembly. It is important to learn the key components of the front gear train to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
40437	ER C08 - Diesel Engine Piston Assembly	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine piston assembly. It is important to learn the key components of the piston assembly to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
41301	ER C09 Diesel Engine Connecting Rod Assembly	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine connecting rod. It is important to learn the key components of the connecting rod to better understand its operation and capabilities, and be able to diagnose concerns. G182	1:00
41302	ER C10 - Diesel Engine Cooling System and Radiator	E,S,C,F	This course is an introduction to the key components of the Cat diesel engine cooling system and radiator. It is important to learn the key components of the cooling systems to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
41303	ER C11 - Diesel Engine Cooling System Components	E,S,C,F	This course is an introduction to the Cat diesel engine cooling systems key components. It is important to learn the key components of the cooling system to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
41304	ER C12 - Cat Diesel Engine Lubrication System	E,S,C,F	This course is an introduction to the Cat diesel engine lubrication system components. It is important to learn the lubrication system to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
41305	ER C13 - Cat Diesel Engine Oil Pumps	E,S,C,F	This course is an introduction to the Cat diesel engine oil pumps and components. It is important to learn about the oil pumps and components to better understand its operation and capabilities, and be able to diagnose concerns.	1:00
21472	HVAC System Electronics	E	This course is designed to prepare the technician to identify the key components of the air conditioning electronic control system, to state the electronic components function, to identify the components of the air conditioning/heating air and coolant distribution system, and to state the function of these components.	1:20
33900	HYD C01 - Basic Hydraulic Systems	E,S,C,F	This course is an introduction to the identification and application of the basic principles and characteristics of hydraulic systems.	1:00
33902	HYD C03 - Hydraulic Series and Parallel Circuits	E,S,C,F	This course is an introduction to the key characteristics of series and parallel hydraulic circuits, oil flow and pressure.	1:00
33903	HYD C04 - Fixed Displacement Hydraulic Circuits	E,S,C,F	This course is an introduction to the correct operation, diagnosis and service procedures for a fixed displacement hydraulic circuit and its components. It is necessary for you to know the normal operation of a fixed displacement hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33964	HYD C05.1 - Hydraulic Conductor Components, Part 1	E,S,C,F	This is Part 1 of a two-part course that introduces the diagnosis and service procedures for hydraulic conductor components. It is necessary for you to know the normal operation of a fixed displacement hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00

33904	HYD C05.2 - Hydraulic Conductor Components, Part 2	E,S,C,F	This is Part 2 of a two-part course that introduces the diagnosis and service procedures for hydraulic conductor components. It is necessary for you to know the normal operation of a fixed displacement hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33905	HYD C06 - Hydraulic Motors and Pumps	E,S,C,F	This course is an introduction to the correct operation and diagnosis of fixed displacement hydraulic pumps and motors. It is necessary for you to know the normal operation of fixed displacement hydraulic pumps and motors in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33955	HYD C07 - Pressure Control Valve	E,S,C,F	This course is an introduction to the correct operation, diagnosis and service procedures for a fixed displacement hydraulic circuit and its components. It is necessary for you to know the normal operation of a fixed displacement hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33954	HYD C08.1 - Directional Control Valve, Part 1	E,S,C,F	This is Part 1 of a two-part course that introduces the correct operation, diagnosis and service procedures for directional control valves. It is necessary for you to know the normal operation of directional control valves in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33965	HYD C08.2 - Directional Control Valve, Part 2	E,S,C,F	This is Part 2 of a two-part course that introduces the correct operation, diagnosis and service procedures for directional control valves. It is necessary for you to know the normal operation of directional control valves in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
33953	HYD C09 - Control Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of control circuits in a fixed displacement hydraulic circuit. It is necessary for you to know the normal operation of control circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34002	HYD C10 - Flow Control Valves	E,S,C,F	There are two general types of flow control valves; non-compensated and pressure compensated. Likewise, for each type, a flow control valve may either contain a fixed or variable orifice. This course is an introduction to the key components and correct operation of hydraulic flow control valves. It is necessary for you know the correct operation of these flow control valves in order to diagnose concerns accurately. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34003	HYD C11 - Hydraulic Cylinders and Accumulators	E,S,C,F	This course is an introduction to the key components and correct operation of hydraulic cylinders and accumulators. It is necessary for you to know the correct operation of hydraulic cylinders and accumulators in order to diagnose concerns accurately. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34004	HYD C12 - Load Sensing, Pressure Compensating Hydraulic Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of load sensing, pressure compensated hydraulic circuits. It is necessary for you to know the normal operation of load sensing, pressure compensated hydraulic circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34033	HYD C13 - Load Sensing, Pressure Cutoff Hydraulic Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of load sensing, pressure cutoff hydraulic circuits. It is necessary for you to know the normal operation of load sensing, pressure cutoff hydraulic circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34005	HYD C14 - Negative Flow Control Hydraulic Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of negative flow control (NFC) hydraulic circuits. It is necessary for you to know the normal operation of negative flow control (NFC) hydraulic circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00

34006	HYD C15 - Proportional Priority, Pressure Compensated Hydraulic Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of proportional priority, pressure compensated (PPPC) hydraulic circuits. It is necessary for you to know the normal operation of proportional priority, pressure compensated (PPPC) hydraulic circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34007	HYD C16 - Electrohydraulic System Circuits	E,S,C,F	This course is an introduction to the correct operation and diagnosis of electro-hydraulic system circuits. It is necessary for you to know the normal operation of electro-hydraulic system circuits in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34008	HYD C17.1 - Hydrostatic Hydraulic Circuits, Part 1	E,S,C,F	This is Part 1 of a three-part course that introduces the the correct operation, diagnosis and service procedures for hydrostatic hydraulic circuits and their components. It is necessary for you to know the normal operation of a hydrostatic hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction.	1:00
34009	HYD C17.2 - Hydrostatic Hydraulic Circuits, Part 2	E,S,C,F	This is Part 2 of a three-part course that introduces the correct operation, diagnosis and service procedures for hydrostatic hydraulic circuits and their components. It is necessary for you to know the normal operation of a hydrostatic hydraulic circuit in or+G283der to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best practices, resulting in effective service and higher customer satisfaction. For the purposes of this module, we will use a speed sensing valve, which is utilized on an automatically controlled drive system, similar to one used in a 906 wheel loader.	1:00
34011	HYD C17.3 - Hydrostatic Hydraulic Circuits, Part 3	E,S,C,F	This is Part 3 of a three-part course that introduces the correct operation, diagnosis and service procedures for hydrostatic hydraulic circuits and their components. It is necessary for you to know the normal operation of a hydrostatic hydraulic circuit in order to accurately diagnose concerns. When diagnosing concerns, it is important that you use a proven systematic process that reinforces best pract+G286ices, resulting in effective service and higher customer satisfaction.	1:00
27997	Hydraulic Accumulator Brake System Course	E	This course covers basic operating systems of brakes used on Caterpillar equipment. The systems include the Mechanically Activated & Hydraulically Boosted Brake System, the Hydraulically Boosted Brake System, the Air Brake G213System, the Air Over Hydraulic Brake System and the Hydraulic Accumulator Brake System. In each of the systems the major components will be described, location shown, and explained how they rely on the use of friction to convert motion into heat, in order to slow, stop, and/or hold the machine stationary.	1:45
28097	Manual Transmission Course	E	This course describes the components and operation of the manual syncromesh transmission. This course includes information on some operational tests to determine if concerns actually exist. There is also a suggested set of pre-steps to take before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	1:45
27761	Mechanically Activated & Hydraulic Boosted Brake System	E	This course covers basic operating systems of brakes used on Caterpillar equipment. The systems include the Mechanically Activated & Hydraulically Boosted Brake System, the Hydraulically Boosted Brake System, the Air Brake System, the Air Over Hydraulic Brake System and the Hydraulic Accumulator Brake System. In each of the systems the major components will be described, location shown, and explained how they rely on the use of friction to convert motion into heat, in order to slow, stop, and/or hold the machine stationary.	2:30
27977	Planetary Transmission Course	E	TThis course describes the components and operation of the planetary transmission, Electronic Clutch Pressure Control (ECPC) and the Individual Clutch Modulation (ICM) control valve. This course includes information on some operational tests to determine if concerns actually exist. There is also a suggested set of pre-steps to take before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	3:15

33814	PM4 Maintenance Interval Schedule (MIS): Articulated Truck Family	E	The courseware, PM4 Maintenance Interval Schedule (MIS): Articulated Truck Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on an articulated truck. As you proceed through this courseware, you'll learn best practices that will: • Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the articulated truck family. • Increase your knowledge of important safety steps in the PM4 on an articulated truck. • Raise your confidence in performing the critically important steps of the PM4 on an articulated truck. • Provide you with an understanding of the steps that are unique in the PM4 for the articulated truck.	1:00
33433	PM4 Maintenance Interval Schedule (MIS): Backhoe Loader Family	E	This courseware, PM4 Maintenance Interval Schedule (MIS): Backhoe Loader Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on a backhoe loader. As you proceed through this courseware, you will learn best practices that will: Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the backhoe loader family. Increase your knowledge of important safety steps in the PM4 on a backhoe loader. Raise your confidence in performing the critically important steps of the PM4 on a backhoe loader. Provide you with an understanding of the steps that are unique in the PM4 for the backhoe loader family.	1:00
33917	PM4 Maintenance Interval Schedule (MIS): Commercial Engine Family	E	PM4 Maintenance Interval Schedule(MIS): Commercial Engine Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on a commercial engine. As you proceed through t+G264is courseware, you'll learn best practices that will: - Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the commercial engine family. -Increase your knowledge of important safety steps in the PM4 on a commercial engine. - Raise your confidencein performing the critically important steps of the PM4 on a commercial engine. -Provide you with an understanding of the steps that are unique in the PM4 for the commercial engine family.	1:00
20262	PM4 Maintenance Interval Schedule (MIS): Hydraulic Excavator Family	E	This course is designed to acquaint you with the unique and critically important steps required to conduct a PM4 Maintenance Interval Schedule (MIS) on a hydraulic excavator and to explain the best practice techniques to do this safely and efficiently.	1:00
33732	PM4 Maintenance Interval Schedule (MIS): Motor Grader Family	E	The courseware, PM4 Maintenance Interval Schedule (MIS): Motor Grader Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on a motor grader. As you proceed through this courseware, you'll learn best practices that will: - Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the motor grader family. - Increase your knowledge of important safety steps in the PM4 on a motor grader. - Raise your confidencein performing the critically important steps of the PM4 on a motor grader. - Provide you with an understanding of the steps that are unique in the PM4 for the motor grader family.	2:00
33918	PM4 Maintenance Interval Schedule (MIS): Off-Highway Truck Family	E	PM4 Maintenance Interval Schedule (MIS): Off-Highway Truck Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on an off-highway truck. As you proceed through this courseware, you'll learn best practices that will: -Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the off-highway truck family. -Increase your knowledge of important safety steps in the PM4 on an off-highway truck. -Raise your confidence in performing the critically important steps of the PM4 on an off-highway truck. -Provide you with an understanding of the steps that are unique in the PM4 for the off-highway truck.	1:00
33436	PM4 Maintenance Interval Schedule (MIS): Skid Steer Loader/Multi-Terrain Loader Family	E	The courseware, PM4 Maintenance Interval Schedule (MIS): Skid Steer Loader/Multi-Terrain Loader Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on a skid steer loader/multi-terrain loader. As you proceed through this courseware, you'll learn best practices that will: Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the skid steer loader/multi-terrain loader family. Increase your knowledge of important safety steps in the PM4 on a skid steer loader/multi-terrain loader. Raise your confidence in performing the critically important steps of the PM4 on a skid steer loader/multi-terrain loader. Provide you with an understanding of the steps that are unique in the PM4 for the skid steer loader/multi-terrain loader family.	1:00
33189	PM4 Maintenance Interval Schedule (MIS): Track-Type Tractor Family	E	This course is designed to acquaint you with the unique and critically important steps required to conduct a PM4 Maintenance Interval Schedule (MIS) on a track-type tractor and to explain the best practice techniques to do this safely and efficiently. It is recommended that students who take this course also complete "Basic Preventative Maintenance" and "Basic TA1 Walk-Around Inspection: Track-Type Tractor Family".	1:30

33278	PM4 Maintenance Interval Schedule (MIS): Wheel Loader Family	E	This course is designed to acquaint you with the unique and critically important steps required to conduct a PM4 Maintenance Interval Schedule (MIS) on a wheel loader and to explain the best practice techniques to do this safely and efficiently. It is recommended that students who take this course also complete “Basic Preventive Maintenance” and “Basic TA1 Walk-Around Inspection: Wheel Loader Family”.	1:30
33922	PM4 Maintenance Interval Schedule (MIS): Wheel Tractor-Scraper Family	E	PM4 Maintenance Interval Schedule (MIS): Wheel Tractor-Scraper Family, is designed to acquaint you with the unique and critically important steps required to conduct a PM4 on an wheel tractor-scraper. As y+G272ou proceed through this courseware, you’ll learn best practices that will: – Improve your proficiency in conducting a PM4 Maintenance Interval Schedule (MIS) within the wheel tractor-scraper family. – Increase your knowledge of important safety steps in the PM4 on a wheel tractor-scraper. – Raise your confidence in performing the critically important steps of the PM4 on a wheel tractor-scraper. – Provide you with an understanding of the steps that are unique in the PM4 for the wheel tractor-scraper.	1:30
28438	Steering Clutch and Brake Course Introduction	E	This course describes the components and operation of the steering clutch and brake control valve and the differential steering system. This course includes information on some operational tests to determine if concerns actually exist. There is also a suggested set of pre-steps to take before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	2:00
27737	Torque Converter	E	This course describes the components and operation of torque converters and torque dividers. This course includes information on some operational tests to determine if concerns actually exist. There is also a suggested set of pre-steps to take before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	2:30
28439	Undercarriage Course	E	This course describes the components and operation of the undercarriage as a system. This course includes information on some operational tests to determine if concerns actually exist with the sprocket, tracks, roller frames, idlers and rollers. There is also a suggested set of pre-steps to take G216before starting the operational tests and some possible causes of the concerns found in a troubleshooting chart.	1:00