

NOTE: Reading this PDF course book is not a substitute for completing the Self-Paced Online training portion of this course. This PDF course book is a resource that accompanies the online training.



English:

If you do not comprehend English, and you require Safety Pass training in a language other than English, please send notification in writing to 2710 Winona Avenue, Burbank, CA 91504. Please provide your name, along with contact information, and specify the language you comprehend. Thank you.

Spanish:

Si usted no comprende inglés y requiere la capacitación Safety Pass en un idioma diferente al inglés, por favor envíe una notificación por escrito a 2710 Winona Avenue, Burbank, CA 91504. Por favor provea su nombre, junto con la información de contacto, y especifique el idioma que usted comprende. Gracias.

Korean:

영어를 이해하지 못하시고 영어가 아닌 다른 언어로 **Safety Pass** 훈련을 받으셔야 한다면, 서면 통지를 **2710 Winona Avenue, Burbank, CA 91504** 로 보내주시기 바랍니다. 귀하의 성함과 연락처를 기재하시고 이해하실 수 있는 언어를 명시해주십시오. 감사합니다.

Armenian:

Եթե դուք անգլերեն չեք հասկանում և ձեզ հարկավոր է **Safety Pass**-ի մարզում անգլերենից տարբեր լեզվով, խնդրում ենք գրավոր ծանուցագիր ուղարկել հետևյալ հասցեով՝ **2710 Winona Avenue, Burbank, CA 91504**: Խնդրում ենք ներկայացնել ձեր անունը, ինչպես նաև կապի տեղեկությունը, հատկապես նշելով ձեր հասկացած լեզուն: Շնորհակալություն:

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Contract Services Administration Training Trust Fund
2710 Winona Avenue
Burbank, CA 91504

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Safety Pass Training Program

The Entertainment Industry is committed to maintaining a safe and healthful working environment. To that end, all major studios have a safety representative on staff. In addition, all employers have a safety program in force. This Safety Pass Program has been designed to further promote safety and health and to prevent injuries, illnesses, and accidents on all productions, both on-lot and off-lot.

Studios and production companies may have more restrictive safety requirements than those mandated by local, state, or federal laws or regulations. They also may assign different duties or responsibilities to employees. Therefore, in addition to this Safety Pass training course, employees should refer to the safety manual and materials provided by their employers.

Employees must adhere to all safety rules and regulations. Failure of any employee to follow safety rules and regulations can lead to disciplinary action, up to and including discharge. However, no employee shall be discharged or otherwise disciplined for refusing to perform work that the individual reasonably believes is unsafe.

No safety training can comprehensively cover all possible unsafe work practices. Each production and its employees, therefore, should fully promote each employee's personal obligation to work safely in order to prevent accidents involving, and injuries to, the employee and to his/her fellow employees.

The Safety Pass Program derives from Federal and California Occupational Safety and Health Administration (OSHA) safety regulations. However, the material included in this workbook and its accompanying presentation should be used only as a general guideline. It is not intended as a legal interpretation of any federal, state, or local safety standard.

During the course of your employment, you may be acting as a supervisor or manager. In California, individuals with management authority and actual authority for the safety of a business practice could be convicted of a crime if they have actual knowledge of a serious concealed danger and fail to warn the affected employees and report the hazard. If a hazard exists, immediately notify the employer or studio safety department of the hazard and insure that potentially affected employees are informed of the danger and that steps are taken immediately to mitigate it.

Although the information contained in this training program has been compiled from sources believed to be reliable, the Alliance of Motion Picture and Television Producers, Contract Services Administration Trust Fund, Contract Services Administration Training Trust Fund, and the instructor make no guarantee nor warranty as to, and assume no responsibility for, the accuracy, sufficiency, or completeness of such information.

The Entertainment Industry is committed to maintaining a safe and healthful working environment.

Slide 1 - Welcome



The slide features a large background image of an orange forklift carrying a pallet of white boxes. The slide is divided into several sections:

- Top Left:** Contract Services logo (CS) with the text "CONTRACT SERVICES" below it.
- Top Right:** A speaker icon followed by the text: "YOU SHOULD BE HEARING NARRATION NOW. If not, check your volume, mute, and/or auto-play settings."
- Middle Left:** Text stating "Presented by Contract Services" and "As part of the Safety Pass Training Program for the Motion Picture and Television Industry".
- Bottom Left:** A large orange square containing a white letter "C".
- Bottom Center:** The title "FORKLIFT SAFETY" in large, bold, black capital letters.
- Bottom Right:** A blue button with the word "START" in white capital letters.

Hello, and welcome to course C, *Forklift Safety*. This self-paced online training is part of the Safety Pass training program for the motion picture and television industry, presented by Contract Services.

Select START to begin.

Slide 2 - Navigation and Resources



At any time during the presentation, you can use the buttons on the side of the player window to view the Table of Contents, open the course book PDF, link to course references and resources, get technical support or help from an instructor about course content, and control the player.

When you're ready to continue, select the NEXT arrow.

Slide 3 - Course Structure (In-Person)



This course consists of three parts: this Self-Paced Online training portion, an online test, and an In-Person training portion. To receive credit for the course, you must pass the test and complete all three portions.

Slide 4 - In-Person Training Registration

The screenshot shows a web interface for 'In-Person Training Registration'. At the top right is a 'Welcome' label. The main heading is 'In-Person Training Registration'. Below this, an orange text box says: 'After the test, return to the Registration page to enroll for the In-person training portion.' An orange arrow points down to a light blue bar with two tabs: 'Self-Paced Online Training' and 'In-person / Live Webinar Training'. The 'In-person / Live Webinar Training' tab is active. Below the tabs, on the left, is text: 'Must complete In-person / Live Webinar portion by MM/DD/YYYY to receive credit. This date does not replace your training deadline.' An orange arrow points up to this text. On the right, there is a blue 'Enroll' button with a hand cursor icon pointing at it.

After passing the test, return to the Registration page to enroll for the In-person training portion. Complete that training by the date specified or you will be required to take this Self-Paced Online training portion again. Your completion deadline does not replace your training deadline.

Slide 5 - IIPP

A presentation slide titled "Injury and Illness Prevention Program" with a "Welcome" label in the top right. The slide features a background image of a person working on a forklift. The main text states: "This course is part of your employer's safety program. In the state of California, this is known as an Injury and Illness Prevention Program (IIPP). The IIPP and Safety Pass training courses are part of your employer's safety program." Below this text are three numbered points in colored boxes: 1. It's your personal responsibility. (red box), 2. It's the law. (orange box), and 3. It's an industry requirement. (purple box).

Welcome

Injury and Illness Prevention Program

This course is part of your employer's safety program.

In the state of California, this is known as an Injury and Illness Prevention Program (IIPP).

The IIPP and Safety Pass training courses are part of your employer's safety program.

- 1 It's your personal responsibility.
- 2 It's the law.
- 3 It's an industry requirement.

This course is part of your employer's safety program. In the state of California, this is known as the Injury and Illness Prevention Program (or IIPP). The IIPP and Safety Pass training courses are part of your employer's safety program.

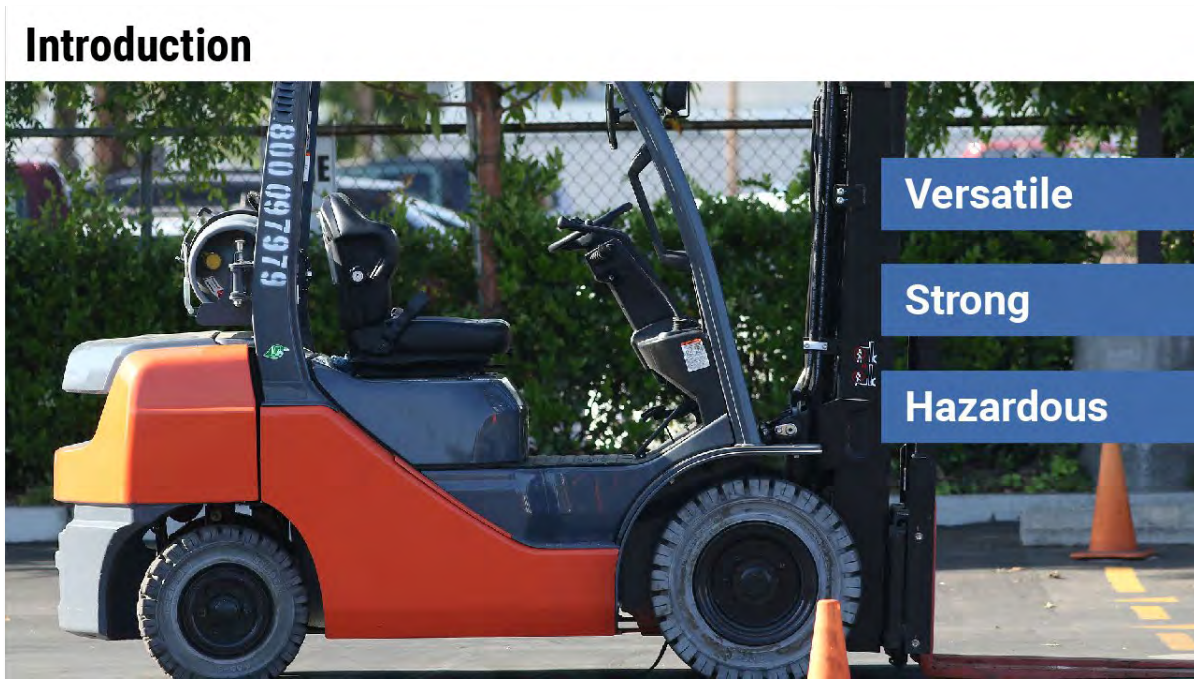
There are three reasons to get safety training.

First, you are personally responsible for your safety. You owe it to yourself and your coworkers to avoid accidents and injuries. The way you make a living and your quality of life depend on it.

Second, it is the law. Occupational safety and health standards guarantee the right to a safe workplace and require employers to train their employees in safety.

And third, the industry requires it. This course is part of a cooperative commitment between major motion picture and television studios and industry labor unions to deliver safety training.

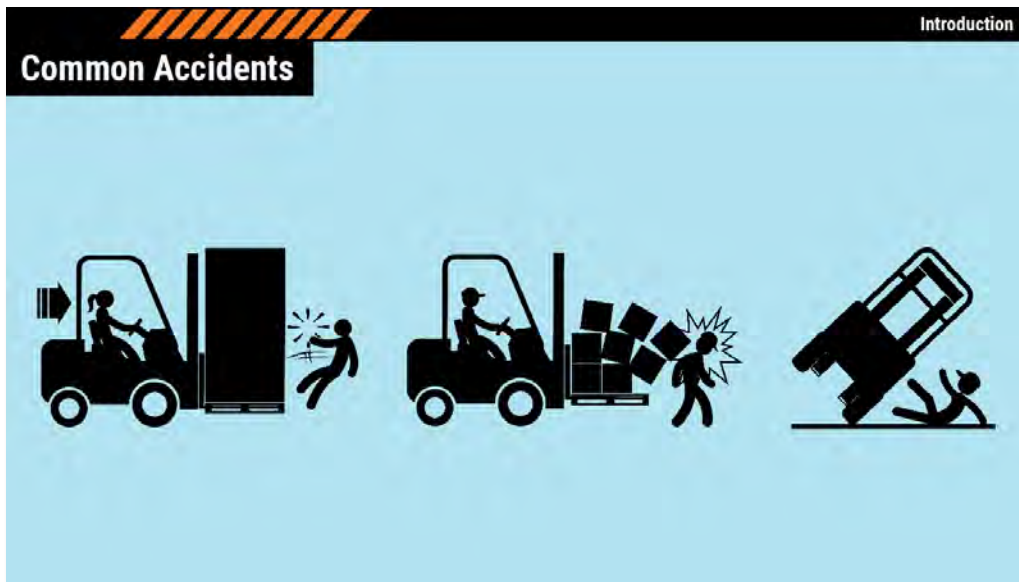
Slide 6 - Introduction



Introduction.

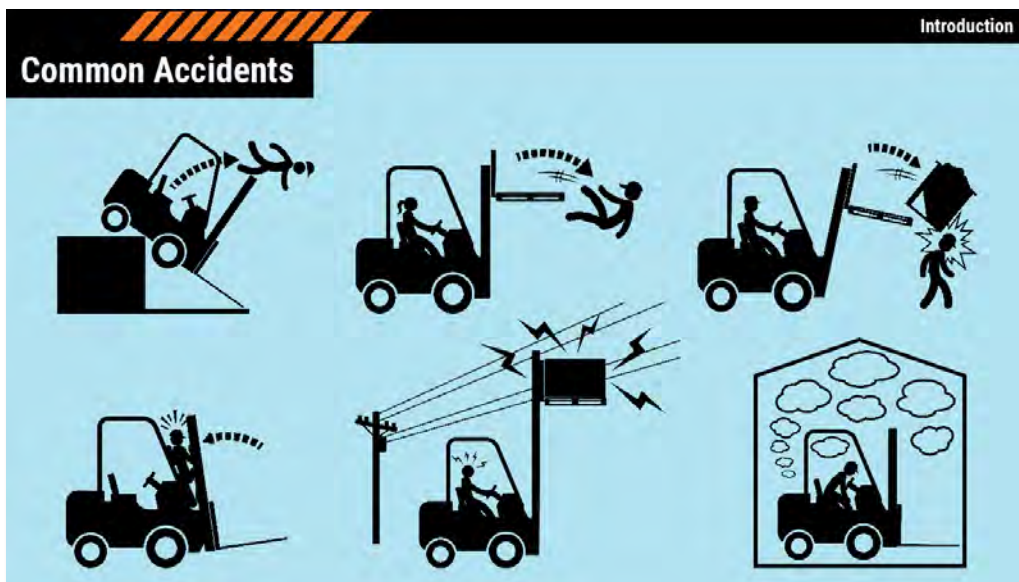
Forklifts are valuable to the motion picture and television industry in both versatility and strength. At the same time, they can be hazardous if regulations and safe work practices are not followed.

Slide 7 - Common Accidents 1



The most common forklift accidents are collisions, falling loads, and tip-overs, all of which can result in injuries to a pedestrian, a worker, or the forklift operator, as well as damage to the load, the vehicle, or other property.

Slide 8 - Common Accidents 2



Types of accidents that occur less frequently but are no less serious include ejection from a vehicle, a fall from height, a falling attachment, a pinching or crushing injury, shock or electrocution, and asphyxia.

We'll talk about how to avoid these dangers and others as we move through the course.

Slide 9 - Course Purpose

Introduction

Course Purpose

Prevent workplace accidents and injuries by:

- ✓ Promoting safe practices
- ✓ Increasing awareness and understanding of regulations



"OSHA" will refer to Cal/OSHA and federal OSHA.

The purpose of this course is to prevent workplace accidents and injuries by promoting safe driving and operational practices and increasing awareness and understanding of Occupational Safety and Health Administration (OSHA) regulations.

Please note that, in this course, "OSHA" will refer to both California OSHA (or Cal/OSHA) and federal OSHA regulations, unless otherwise specified.

Slide 10 - Course Terminology



Operator Authorized by the employer to operate forklifts and trained to use them safely.



Worker Works with forklifts loading and unloading cargo, holding the tethering device of suspended loads, or pointing out blind spots, traffic, or obstructions.
Works in areas where forklifts are operated.

In this course, the term **operator** refers to someone who has been authorized by the employer to operate forklifts and trained to use them safely.

The term **worker** refers to someone who performs tasks involving forklifts such as loading and unloading cargo, holding the tethering device of suspended loads, or pointing out blind spots, traffic, or potential obstructions or who works in areas where forklifts are operated.

Slide 11 - Training and Evaluation

The slide features a background image of a forklift's operator seat and controls. A black banner at the top left contains the text "Training and Evaluation" in white, preceded by four orange diagonal stripes. A small "Introduction" label is in the top right corner. A light blue text box on the right lists requirements for every three years: "✓ Safety Pass training" and "✓ OSHA-mandated driving evaluation".

Training and Evaluation

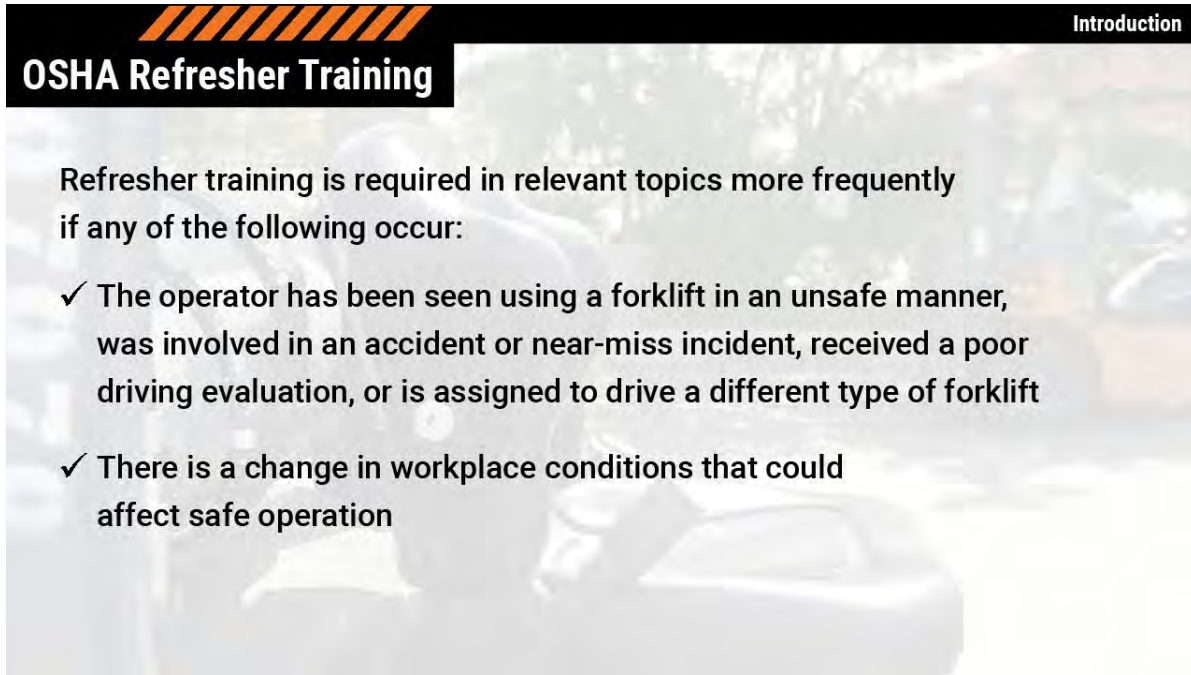
Introduction

Every three years:

- ✓ Safety Pass training
- ✓ OSHA-mandated driving evaluation

You are here today because you are an operator or a worker. Every three years, you must take Safety Pass training and have an OSHA-mandated driving evaluation. The in-person portion of this training includes the evaluation required by OSHA.

Slide 12 - OSHA Refresher Training

The slide features a background image of a forklift operator in a warehouse setting. A black banner at the top left contains the title "OSHA Refresher Training" in white, preceded by five orange diagonal stripes. A small "Introduction" label is in the top right corner. The main text explains that refresher training is required more frequently if certain events occur, followed by a bulleted list of two conditions.

OSHA Refresher Training

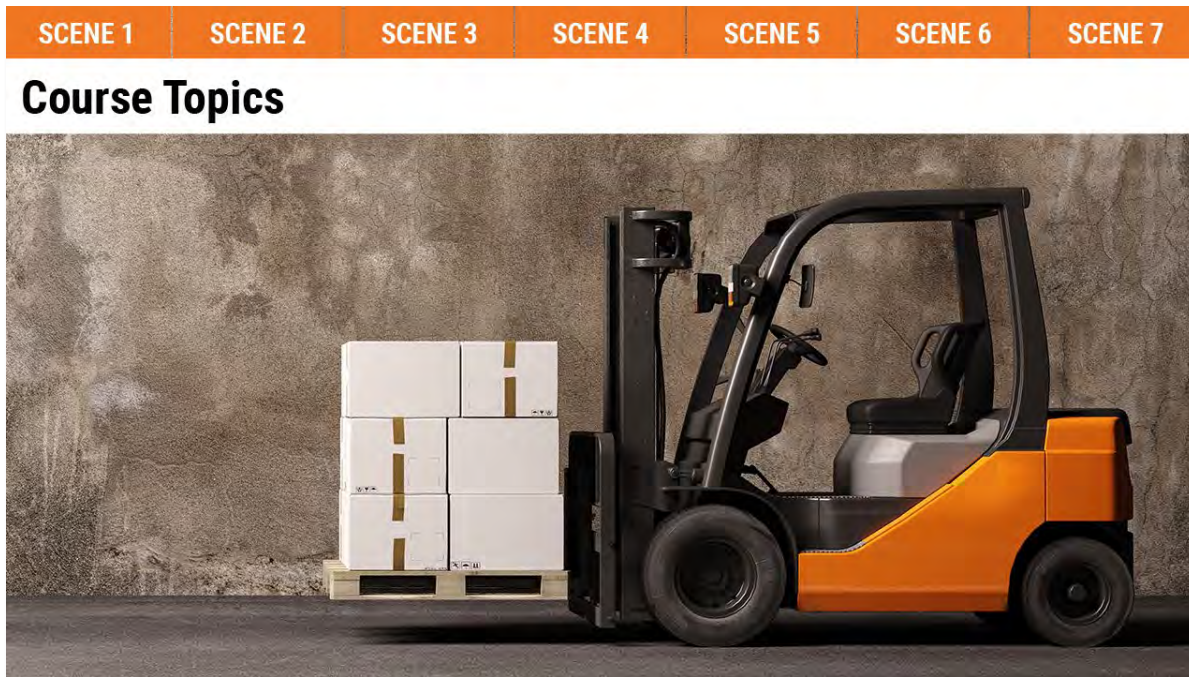
Introduction

Refresher training is required in relevant topics more frequently if any of the following occur:

- ✓ The operator has been seen using a forklift in an unsafe manner, was involved in an accident or near-miss incident, received a poor driving evaluation, or is assigned to drive a different type of forklift
- ✓ There is a change in workplace conditions that could affect safe operation

OSHA also requires refresher training in relevant topics more frequently if any of the following occur: The operator has been seen using a forklift in an unsafe manner, was involved in an accident or near-miss incident, received a poor driving evaluation, or is assigned to drive a different type of forklift. Or, there is a change in workplace conditions that could affect safe operation of a forklift.

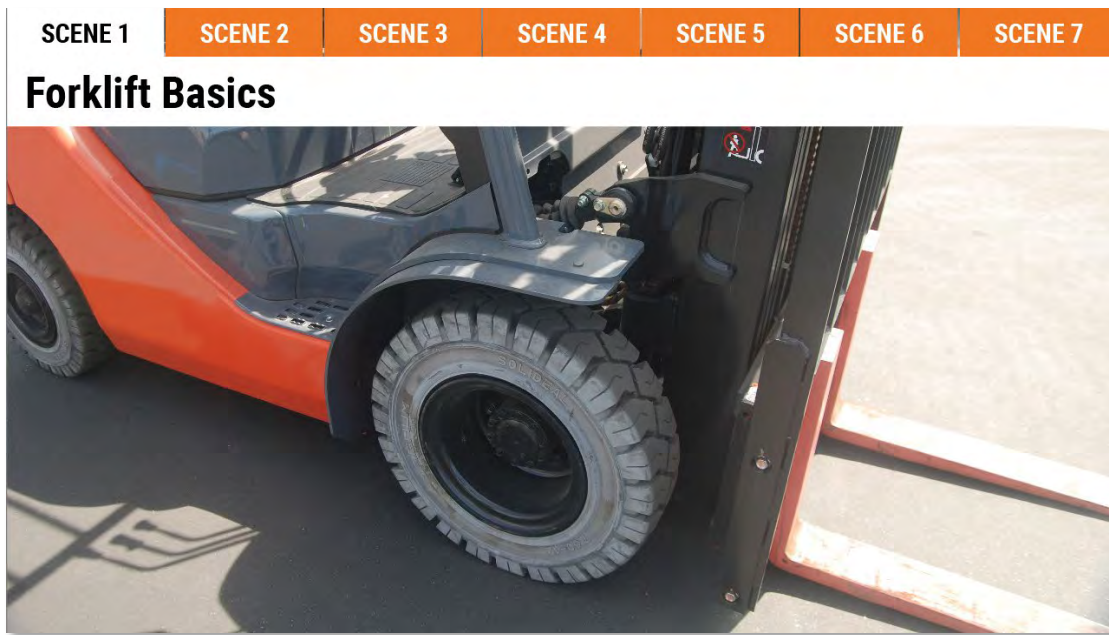
Slide 13 - Course Contents



The topics we'll cover in this course are forklift basics, principles of forklift capacity and stability, safe operation and load-handling practices, attachments, operational procedures, pre-use inspections, and refueling and recharging.

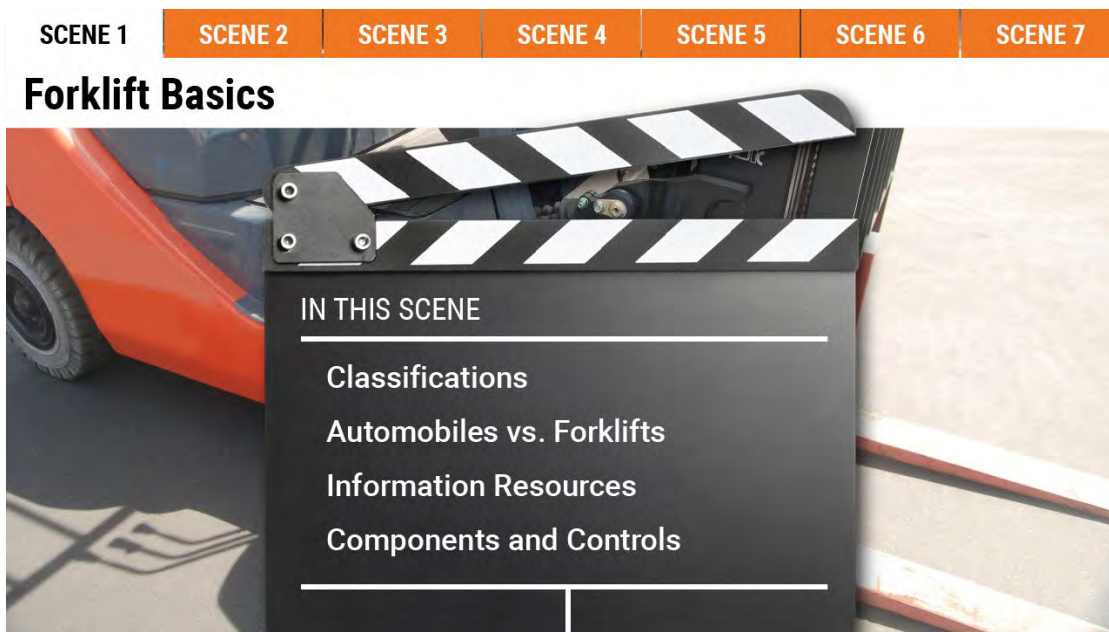
Ok, let's get started!

Slide 14 - Forklift Basics



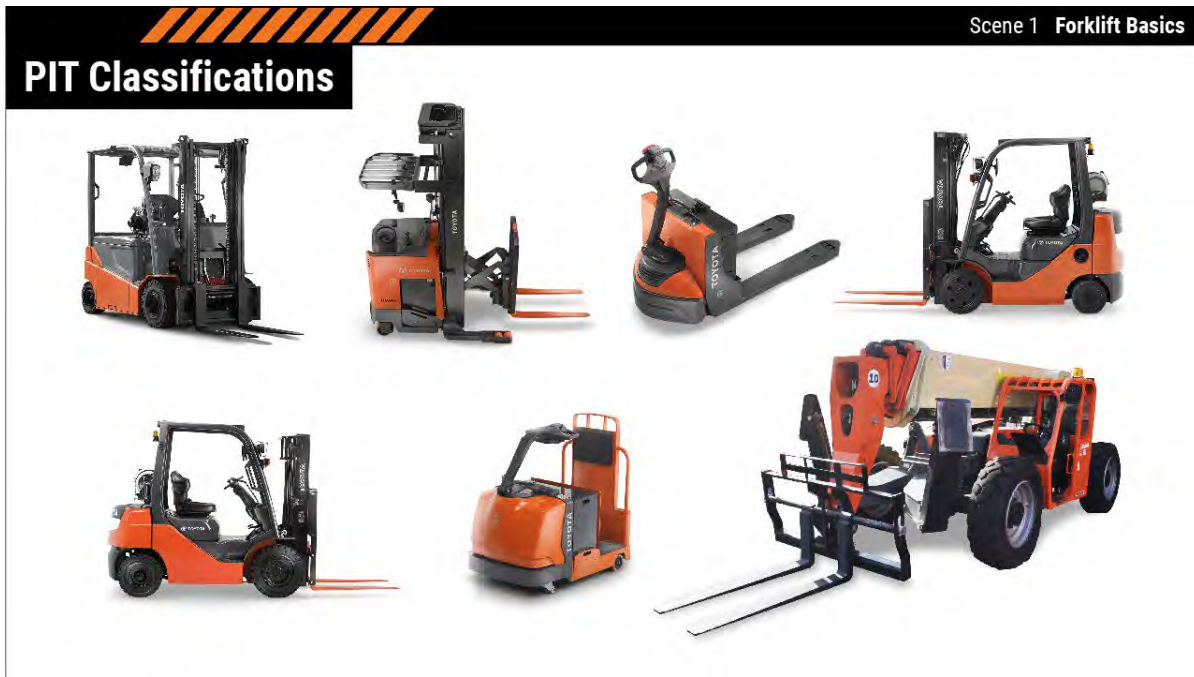
Scene One, Forklift Basics.

Slide 15 - In This Scene



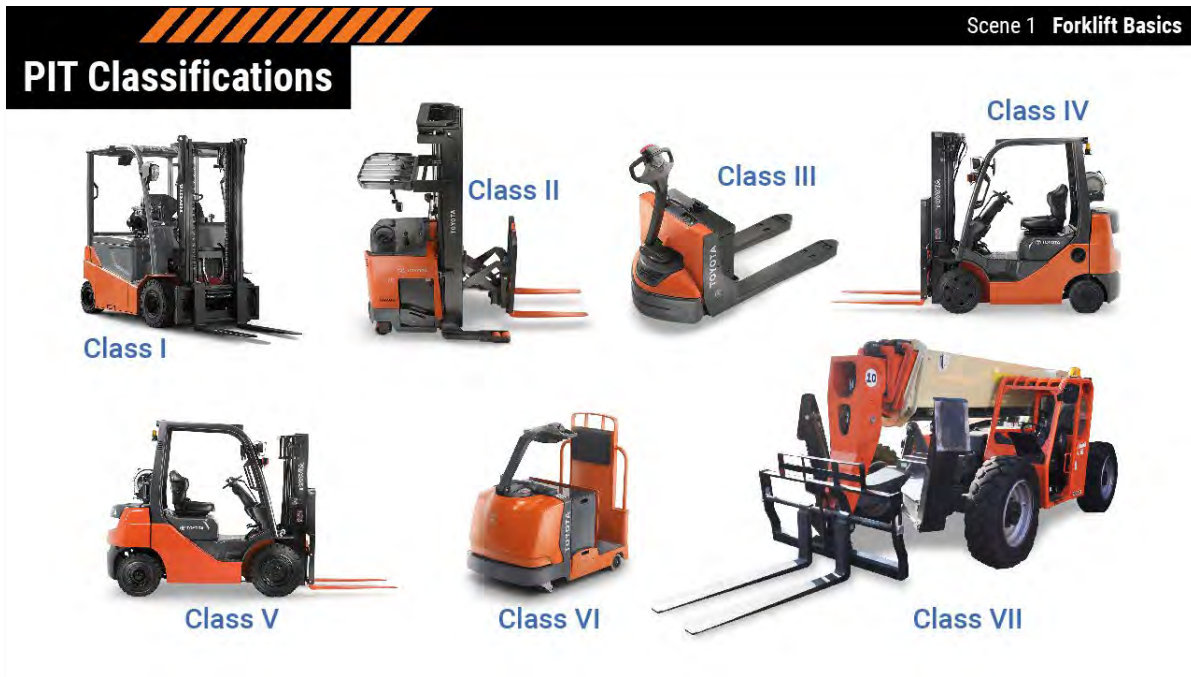
In this scene, we'll learn about forklift classifications and how automobiles and forklifts differ from each other. Then, we'll review where to find information about the make and model of vehicle you are operating and the names and functions of common forklift components and controls.

Slide 16 - PIT Classifications 1



Forklifts are categorized by OSHA as powered industrial trucks, or PITs. There are seven PIT classifications.

Slide 17 - PIT Classifications 2



Class I forklifts are electric.

Class II are electric and designed for narrow aisles.

Class III are electric motor hand trucks or hand/rider trucks.

Class IV forklifts have internal combustion engines and solid tires, also called cushion tires.

Similarly, Class V forklifts have internal combustion engines, but the tires are pneumatic, or air-filled.

Class VI are tractors and have electric or internal combustion engines. Note that Class VI PITs are not forklifts.

And lastly, Class VII rough terrain forklifts have internal combustion engines and large, rugged tires. They are intended for use outdoors and can usually handle heavier loads than other classes of forklifts.

Slide 18 - PIT Classifications 3



Within Class VII there are three types of rough terrain forklifts (or RTFLs): A vertical mast RTFL, a variable reach RTFL (commonly referred to as a telehandler), and a truck- or trailer-mounted RTFL. The full list of PIT classifications is available through the *Resources* icon.

Slide 19 - Course Examples



Most regulations and safety practices apply across all classes of PITs. So, for the sake of simplicity, we'll use the common Class V vertical mast forklift for the majority of examples in this course, unless otherwise specified.

Slide 20 - Weight



Now, let's look at some of the major differences between automobiles and forklifts, starting with weight.

Automobiles are relatively light compared to forklifts. Even a smaller Class V forklift weighs approximately 6,000 pounds, making it almost twice as heavy as a mid-sized sedan. This extra weight means that operators must pay attention to the surfaces on which they are driving to ensure they are stable and can support the weight of the forklift and load. Forklifts also take more time to stop than automobiles and can cause considerable damage or injury if you have to slam on the brakes or if there is a collision.

Slide 21 - Visibility



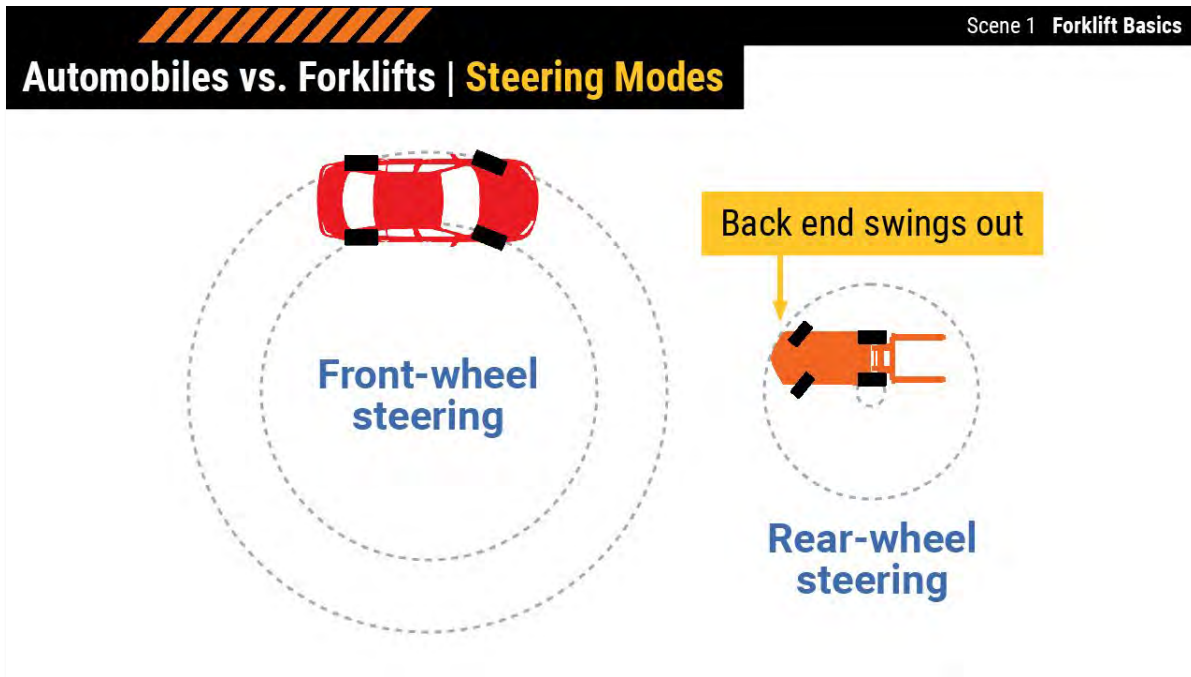
Visibility is another big difference. Automobiles have few blind spots; the driver has a wide field of vision in all directions. Forklifts, on the other hand, have blind spots created by the load being carried or by parts of the vehicle.

Slide 22 - Stability



An automobile is designed to drive at high speeds while fully loaded. Under normal circumstances, there is little chance of an automobile overturning. The stability of a forklift is affected by many factors: the load, mast height, sharp turns, and work area conditions, to name just a few.

Slide 23 - Steering Modes

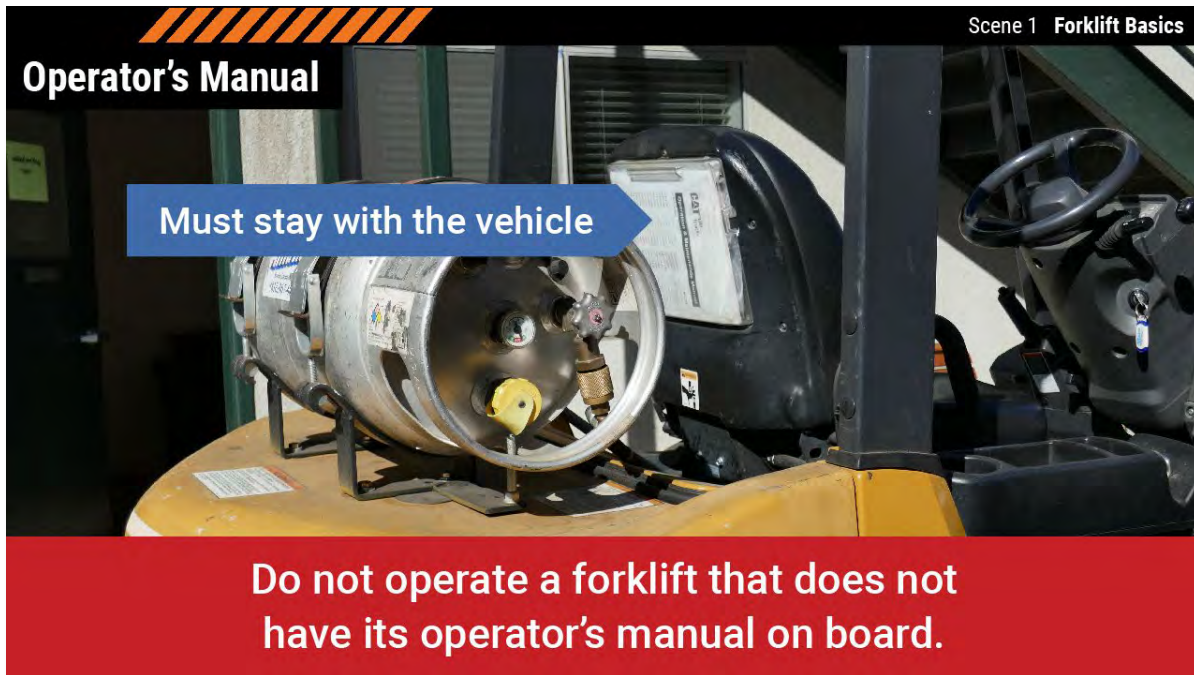


Most automobiles have front-wheel steering, which produces a rather large turning radius.

Vertical mast forklifts have rear-wheel steering, giving them a small turning radius for greater maneuverability in tight spaces.

With rear-wheel steering, the back end of the forklift swings out. This can be hazardous to nearby workers who may not be familiar with how forklifts move and to forklift operators who may be too close to an obstruction or an unprotected edge.

Slide 24 - Operator's Manual



Each forklift has its own operator's manual, which must stay with the vehicle. Forklift operators should use it to familiarize themselves with that make and model's operation, safety, and emergency instructions. Do not operate a forklift that does not have its operator's manual on board. If the manual is missing, contact your transportation department or safety representative.

Slide 25 - Data Plate and Decals

Scene 1 Forklift Basics

Data Plate and Decals

FORKLIFT TRUCK


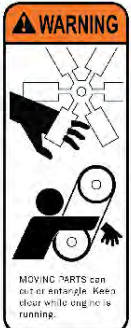

MODEL	6GHDV14		SERIAL NO.	86736
MAST	FSU	BACK TILT	5	ATTACH FORKS
TYPE	LP			
FRONT TREAD	35	TIRE FR	21x7x14/SOLID	
TREAD	885	SIZE RR	16x5x10-1/2/SOLID	
TRUCK WT.	8370	lb		
ACCURACY±%	3300	kg		


RATED CAPACITY WITH VERTICAL MAST EQUIPPED AT MAX. LIFT HEIGHT "A" AS SHOWN

	A	B	C	CAPACITY
in	189	24	0	5000 lb
mm	4800	600	0	2200 kg
in	189	30	0	4350 lb
mm	4800	760	0	1900 kg


THIS FORKLIFT TRUCK MEETS OR EXCEEDS DESIGN SPECIFICATIONS OF ASME/ANSI B56.1 IN EFFECT ON THE DATE OF MANUFACTURE.

WARNING IMPROPER OPERATION OR MAINTENANCE COULD RESULT IN INJURY OR DEATH. TRAINED OPERATORS ONLY. READ OPERATOR'S MANUAL FIRST.









WARNING




Seat belts help reduce tip over injury if you follow these instructions.







DANGER




Don't jump!



Hold on tight.



Brace feet.



Lean away.

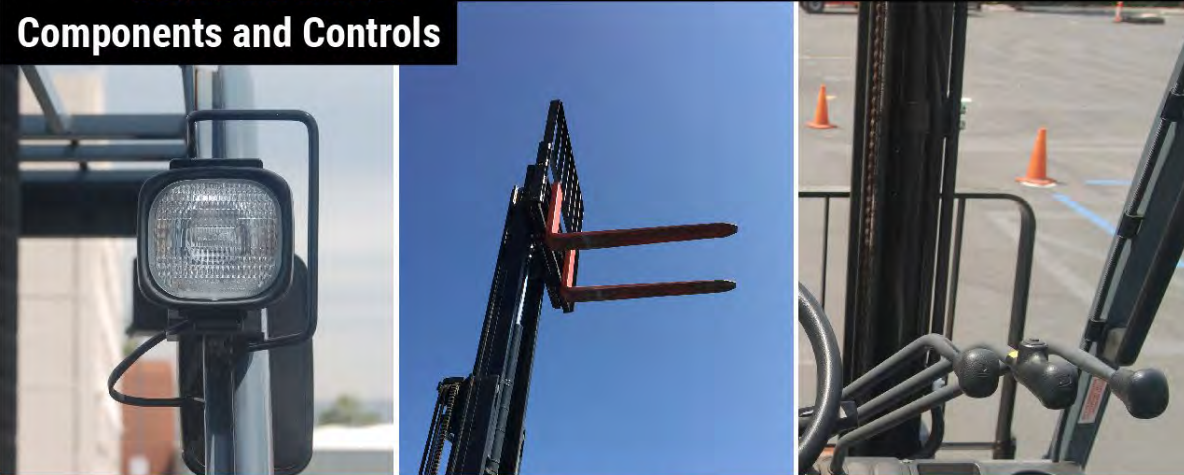
Vertical mast forklifts usually have a single data plate and multiple decals that provide important information, instructions, and warnings. Forklift operators need to check the operator's manual to see where the data plate and each decal is located on the vehicle.

Do not operate a forklift if the data plate or decals are illegible or missing.

Slide 26 - Components and Controls

Scene 1 Forklift Basics

Components and Controls



Operators: Review the list of features in the operator's manual.

Workers: Know the following list of basic features.

In order to understand instructions, describe problems, or operate the vehicle properly, it's important to know the names, locations, and functionality of the components and controls of the forklift in use. Features vary between makes and models; those shown in this course may not be present on the specific vehicle you operate or work with.

Forklift operators should review the complete list of features in the operator's manual.

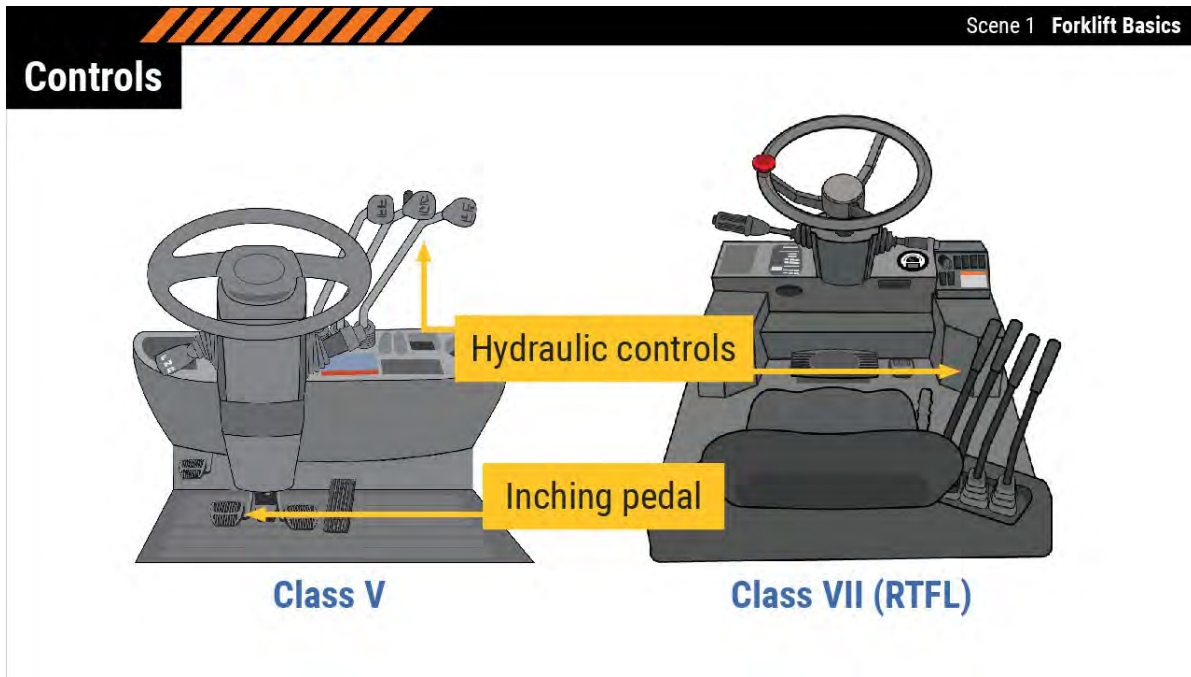
Those working with or near forklifts should know the following basic features:

Slide 27 - Components



A counterweight, a rollover protective structure, or ROPS, a falling object protective structure, or FOPS (also called an overhead guard), a mast, a load backrest, a carriage, and forks. This vertical area of the forks is referred to as the face of the forks.

Slide 28 - Controls



In addition to familiar driving controls like the steering wheel and brakes, vertical mast forklifts will have a few controls you may not be accustomed to.

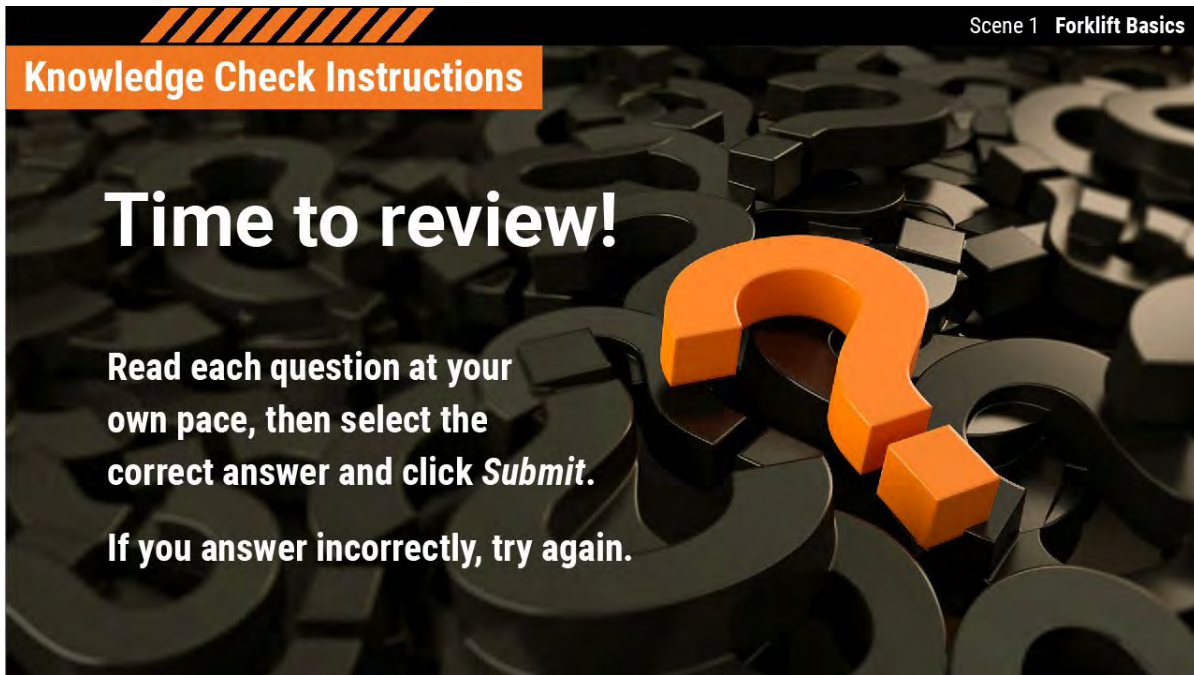
The direction control lever is for shifting between forward, neutral, and reverse. When traveling in reverse, the backup alarm will sound.

The parking brake may be a pedal, a lever, or a switch.

Vertical mast forklifts have three or four hydraulic controls, which raise and lower the forks, tilt the mast, shift the forks to the left and right, and, if equipped, operate auxiliary attachment features.

Some models may have an inching pedal, which acts as a brake and disengages the transmission, allowing the operator to increase engine speed, giving more power to the hydraulic lift.

Slide 29 - Knowledge Check Instructions



Okay. We've reached our first set of knowledge checks. Read each question at your own pace, then select your answer and click the *Submit* button. If you answer incorrectly, try again.


Slide 30 - Knowledge Check 1

Scene 1 Forklift Basics


Knowledge Check 1

Which of these vehicles most likely weighs more?

A



B



Submit

Slide 31 - Knowledge Check 2

Scene 1 Forklift Basics

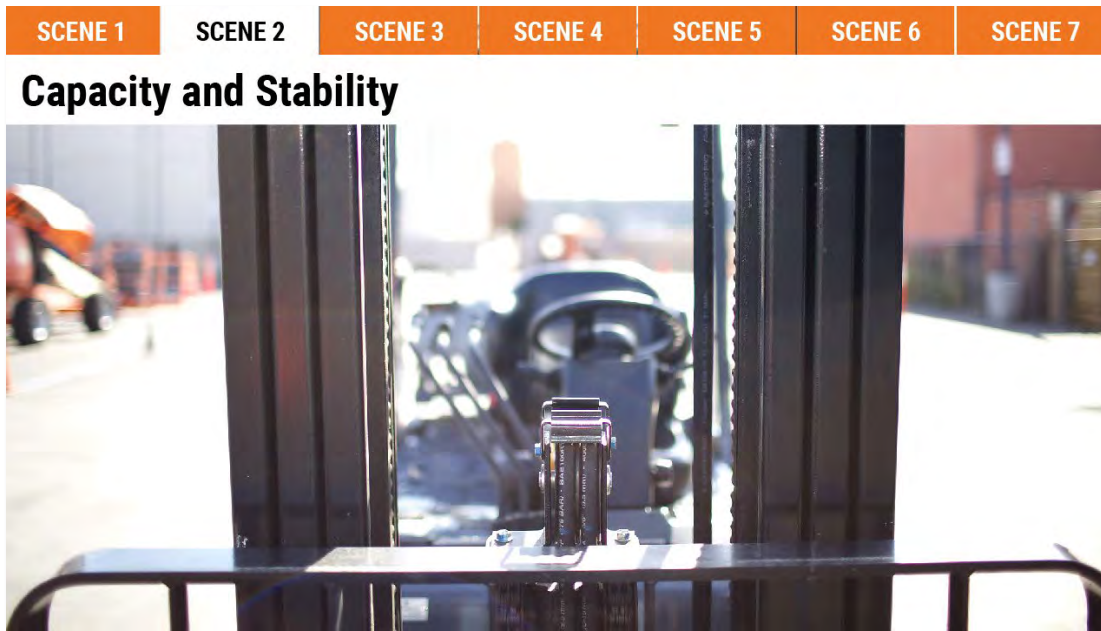
Knowledge Check 2

What can be hazardous about working with a rear-wheel steering forklift?

- ☐ A. The rear end of the forklift swinging out could be unexpected to those working nearby
- ☐ B. Rear-wheel steering creates a small turning radius
- ☐ C. The rear end of the forklift swinging out makes a forklift unstable
- ☐ D. Rear-wheel steering inhibits visibility

Submit

Slide 32 - Capacity and Stability



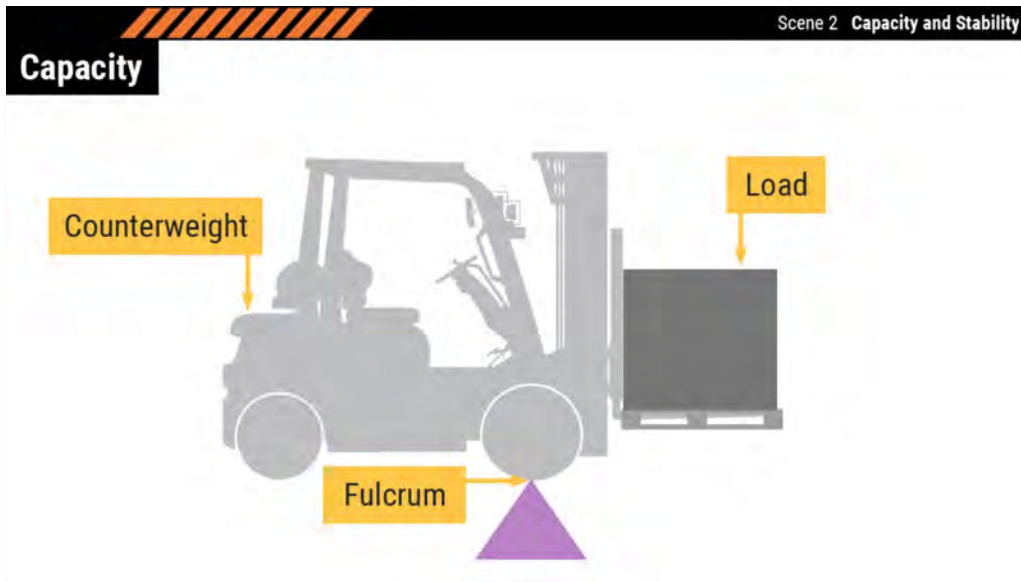
Scene Two, Capacity and Stability.

Slide 33 - In This Scene



In this scene, you'll learn about the principles of forklift capacity and stability. Understanding these two concepts is vital to operating a forklift safely. We'll start with capacity.

Slide 34 - Capacity

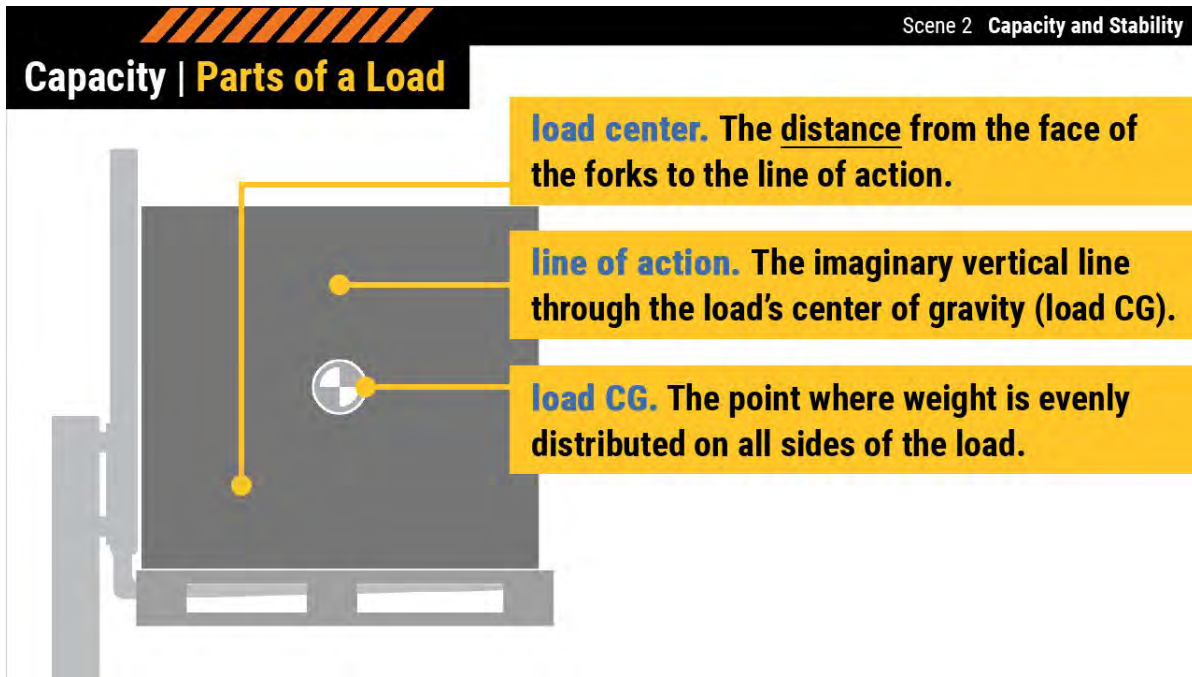


Forklifts balance the weight of the load on the forks with the weight of the engine and heavy metal plates called the counterweight. Think of a forklift as a seesaw, with the front wheels as the balance point, or fulcrum. As long as the force of the weight and the height of the load remains less than the force of the counterweight, the forklift will not tip forward.



Capacity is the maximum weight a forklift can safely carry at a specified load center and mast height. If capacity is exceeded, the forklift will tip forward.

Slide 35 - Parts of a Load



As we just mentioned, an important part of staying within a forklift's capacity is knowing the **load center** of the load on the forks. The load center is the distance from the face of the forks to the line of action.

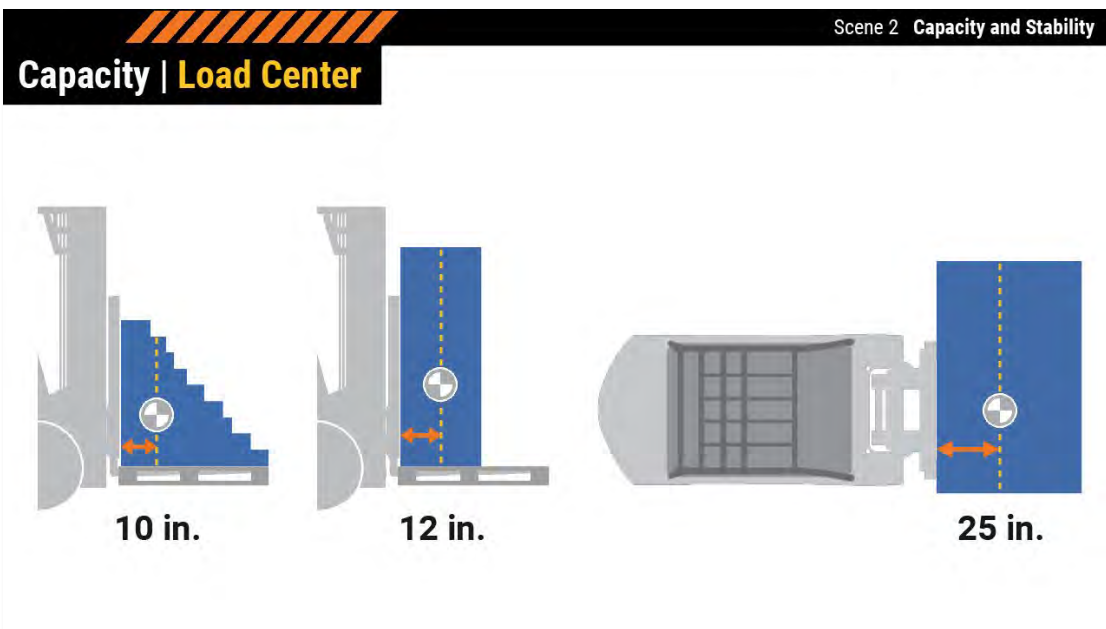
The **line of action** is the imaginary vertical line through the **load's center of gravity** (or **load CG**). And, the load CG is the point where weight is evenly distributed on all sides of the load.

Slide 36 - Load CG



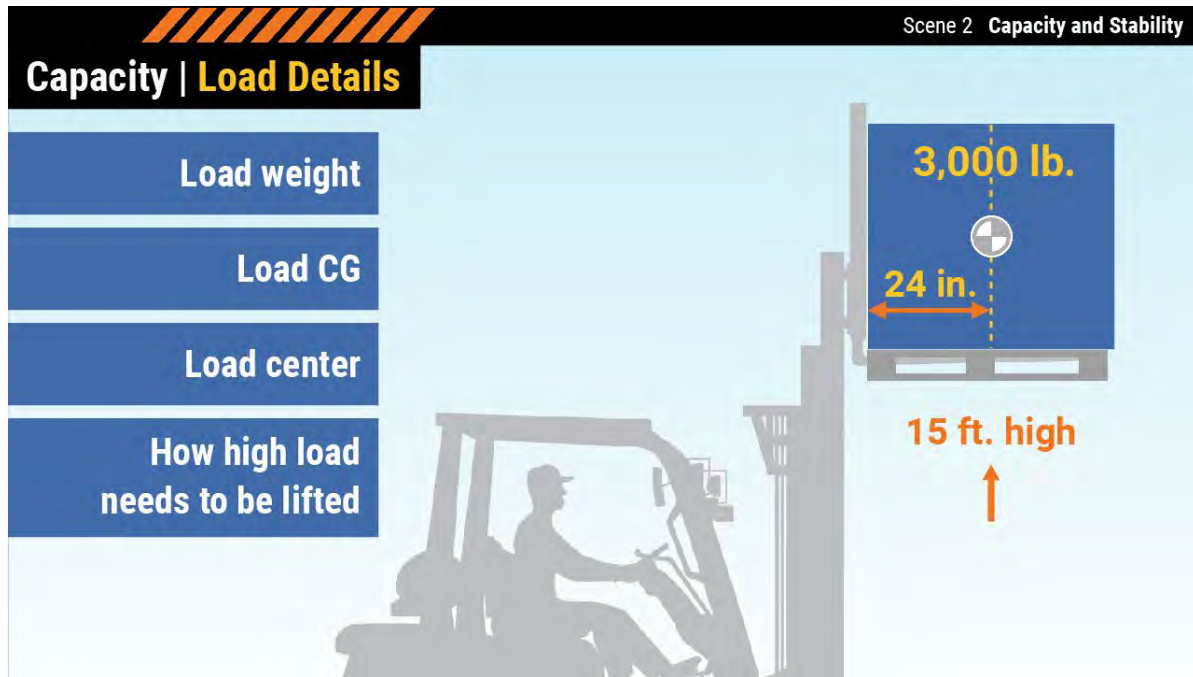
Keep in mind that the load CG (again, that's center of gravity) is not always in the middle of the load. Its position can vary based on the load's weight distribution.

Slide 37 - Load Center



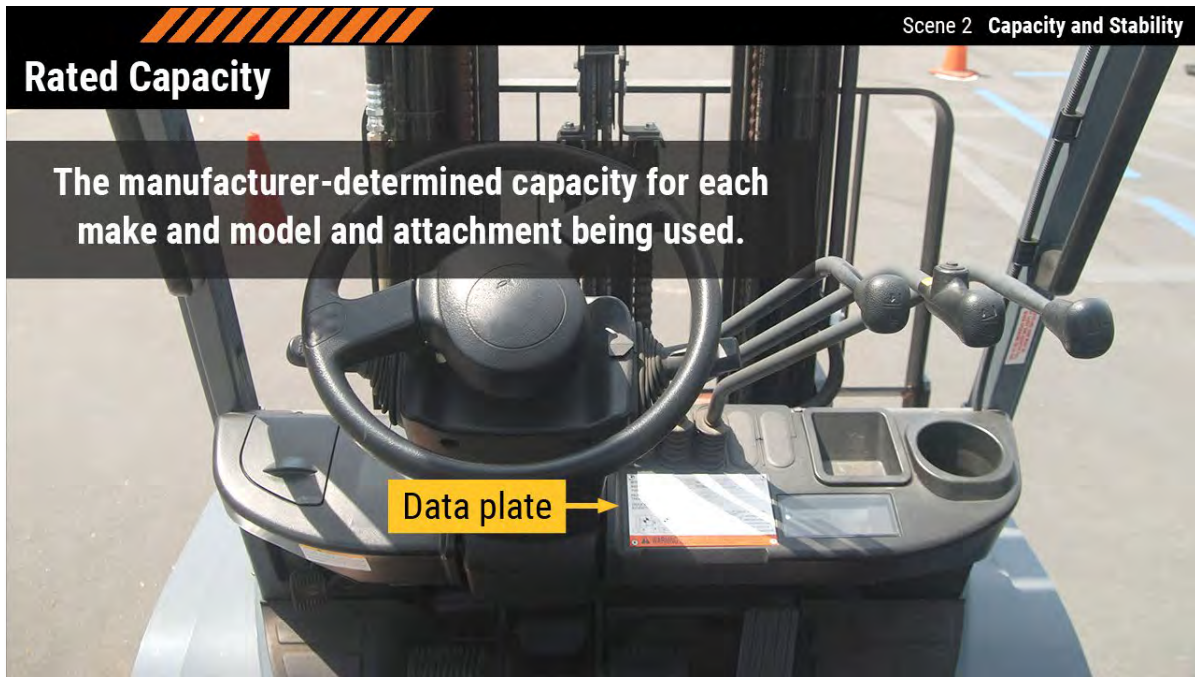
That means that the load center (again, that's a distance) can also change from load to load.

Slide 38 - Load Details



Load weight, load CG, load center, and how high the load needs to be lifted: You must know these details in order to determine if the load is within the capacity of the forklift you are operating.

Slide 39 - Rated Capacity 1



Now, let's talk about **rated capacity**. Rated capacity is the manufacturer-determined capacity for each make and model of forklift and the attachment being used and is shown on the data plate.

Slide 40 - Rated Capacity 2

Rated Capacity

Scene 2 Capacity and Stability

FORKLIFT TRUCK

Sample data plate

MODEL	6GHDV14		SERIAL NO.	86736	
MAST	FSU	BACK TILT	5	ATTACH FORKS	
TYPE	LP				
FRONT TREAD	35	TIRE FR	21x7x15/SOLID		
REAR TREAD	885	SIZE RR	16x5x10-1/2/SOLID		
TRUCK WT.	3800				
ACCURACY	±5%				

Mast height

Rated load center

RATED CAPACITY WITH VERTICAL MAST EQUIPPED AT MAX. LIFT HEIGHT "A" AS SHOWN

	A	B	C	CAPACITY	
in	189	24	0	5000	lb
mm	4800	600	0	2200	kg
in	189	30	0	4350	lb
mm	4800	760	0		

WARNING

IMPROPER OPERATION OR IN INJURY OR DEATH. TRA
READ OPERATOR'S MANUAL FIRST.

Maximum load weight
(rated capacity)

The data plate provides three pieces of information that define the rated capacity for that forklift:

One, the maximum **mast height** to which a load can be raised, as long as the load does not exceed the rated load center or maximum load weight.

Two, the **rated load center**, which is based on the length of the forks and tells you the maximum load center a load can have in order to lift it to the specified mast height, as long as it doesn't exceed the maximum load weight. Standard forks have a rated load center of 24 inches.

And three, the **maximum load weight** that can be lifted to the specified mast height, as long as the load's load center is less than or equal to the rated load center. (Note that it's also common to say **rated capacity** when referring only to the maximum load weight listed on the data plate.)

So, in this example, a load can be lifted with standard forks to a height of 189 inches if its load center is no greater than 24 inches and it weighs no more than 5,000 pounds.

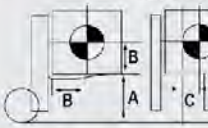
Slide 41 - Rated Capacity 3

Rated Capacity

Scene 2 Capacity and Stability

FORKLIFT TRUCK

MODEL	6GHDV14		SERIAL NO.	86736	
MAST	FSU	BACK TILT	5	ATTACH FORKS	
TYPE	LP				
FRONT TREAD	35	TIRE FR	21x7x15/SOLID		
	885	SIZE RR	16x5x10-1/2/SOLID		
TRUCK WT.	8370	lb			
ACCURACY±5%	3800	kg			



		A	B	C	CAPACITY	
in	189	24	0	5000	lb	THIS FORKLIFT TRUCK MEETS OR EXCEEDS DESIGN SPECIFICATIONS OF ASME/ ANSI B56.1 IN EFFECT ON THE DATE OF MANUFACTURE.
mm	4800	600	0	2200	kg	
in	189	30	0	4350	lb	
mm	4800	760	0	1900	kg	

When load center increases, capacity decreases.


For this forklift, the manufacturer provides a second rated capacity for the same standard forks. This tells us that a load can be lifted to a height of 189 inches if its load center is greater than 24 inches but less than or equal to 30 inches and it weighs no more than 4,350 pounds.

Notice that when the load center increases, capacity decreases.

Slide 42 - Rated Capacity 4

Rated Capacity

Scene 2 Capacity and Stability


Sample data plate

RATED CAPACITY AT 24 INCH-610 MM LOAD CENTER

8000	LBS TO	180	IN	3630	KG TO	457	CM
4700	LBS TO	264	IN	2132	KG TO	671	CM

RATED CAPACITY AT 36 IN 914 MM LOAD CENTER WITH ATTACHMENT

2X5X72 FORKS

6600	LBS TO	180	IN	2994	KG TO	457	CM
2726	LBS TO	264	IN	1236	KG TO	671	CM

TRUCK OPERATING WT. 16830 LB 7634 KG

Some larger vertical mast forklifts may provide rated capacities for more than one type of forks. This data plate has rated capacities for both standard forks and long forks.

Slide 43 - Rated Capacity 5

Scene 2 Capacity and Stability					
Rated Capacity					
RATED CAPACITY AT 24 INCH 610 MM LOAD CENTER					
8000	LBS TO	180	IN	3630	KG TO 457 CM
4700	LBS TO	264	IN	2132	KG TO 671 CM
RATED CAPACITY AT 36 IN 914 MM LOAD CENTER					
WITH ATTACHMENT 2X5X72 FORKS					
6600	LBS TO	180	IN	2994	KG TO 457 CM
2726	LBS TO	264	IN	1236	KG TO 671 CM
TRUCK OPERATING WT. 16830 LB 7634 KG					

With standard forks, a load with a load center of no more than 24 inches can be lifted to a height of 180 inches if it weighs no more than 8,000 pounds, or to a height of 264 inches if it weighs no more than 4,700 pounds. For 72-inch-long forks, the rated load center is 36 inches. Using these forks, a load with a load center of no more than 36 inches can be lifted to a height of 180 inches if it weighs no more than 6,600 pounds, or to a height of 264 inches if it weighs no more than 2,726 pounds.

Slide 44 - Rated Capacity 6

Scene 2 Capacity and Stability					
Rated Capacity					
RATED CAPACITY AT 24 INCH 610 MM LOAD CENTER					
8000	LBS TO	180	IN	3630	KG TO 457 CM
4700	LBS TO	264	IN	2132	KG TO 671 CM
RATED CAPACITY AT 36 IN 914 MM LOAD CENTER					
WITH ATTACHMENT 2X5X72 FORKS					
6600	LBS TO	180	IN	2994	KG TO 457 CM
2726	LBS TO	264	IN	1236	KG TO 671 CM


Capacity decreases the higher a load is lifted.

Again, you can see that when the load center increases, capacity decreases. Additionally, this data plate shows us that capacity also decreases the higher a load is lifted.

Slide 45 - Staying Within Capacity 1

Scene 2 Capacity and Stability

Staying Within Capacity



If the load weighs more than the rated capacity,
the load is NOT safe to lift.

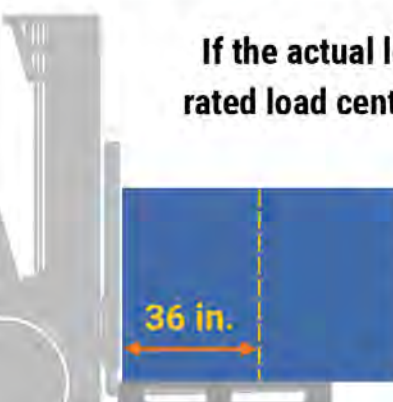
	A	B	C	CAPACITY
in 189	24	0	5000 lb	
mm 4800	600	0	2200 kg	
in 189	30	0	4350 lb	
mm 4800	760	0	1900 kg	

So, how do you stay within capacity? You must compare the load you intend to lift with the rated capacity information on the data plate. If the load weighs more than the rated capacity, it is NOT safe to lift.

Slide 46 - Staying Within Capacity 2

Scene 2 Capacity and Stability

Staying Within Capacity



If the actual load center is greater than the
rated load center, the load may be safe to lift.

	A	B	C	CAPACITY
in 189	24	0	5000 lb	
mm 4800	600	0	2200 kg	
in 189	30	0	4350 lb	
mm 4800	760	0	1900 kg	

What if the load you intend to lift has an actual load center greater than the rated load center shown on the data plate? You may still be able to lift this load safely.

Slide 47 - Adjusted Capacity

Scene 2 Capacity and Stability

Adjusted Capacity

The weight a forklift can safely carry, taking into account a load's **actual load center**, the **rated load center**, and the **rated capacity**.

OSHA Field Calculation Formula:

$$\frac{\text{Rated load center (in.)}}{\text{Actual load center (in.)}} \times \text{Rated capacity (lb.)} = \text{Adjusted capacity (lb.)}$$

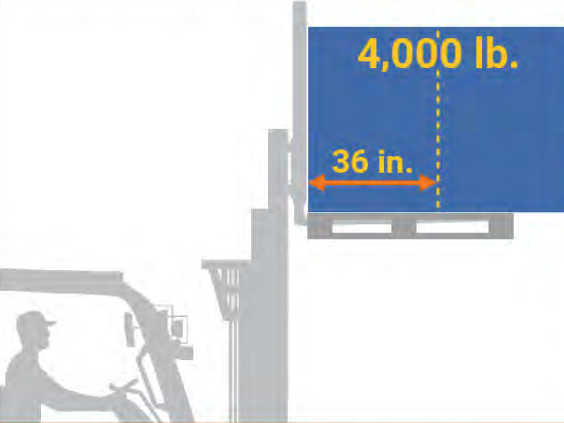
To see if the load is safe to lift, you can calculate an adjusted capacity. **Adjusted capacity** is the weight a forklift can safely carry, taking into account a load's actual load center, the rated load center, and the rated capacity. Using OSHA's field calculation formula, divide the rated load center by the actual load center and multiply by the rated capacity.

Let's look at some examples.

Slide 48 - Example 1

Scene 2 Capacity and Stability

Calculating Adjusted Capacity | Example 1



This load is NOT safe to lift.

	A	B	C	CAPACITY	
in 189	24	0	5000	lb	
mm 4800	600	0	2200	kg	
in 189	30	0	4350	lb	
mm 4800	760	0	1900	kg	

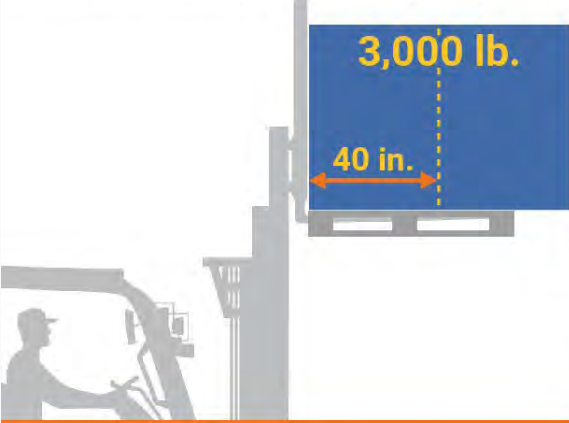
$$\frac{24 \text{ in.}}{36 \text{ in.}} \times 5,000 \text{ lb.} = 3,333 \text{ lb.}$$

For our first example, we have a 4,000-pound load with a 36-inch load center that needs to be lifted to 189 inches. Divide the rated load center (24) by the actual load center (36) and multiply by the rated capacity for a mast height of 189 inches (5,000). The adjusted capacity is 3,333 pounds. The 4,000-pound load exceeds the adjusted capacity. The load is NOT SAFE to lift.

Slide 49 - Example 2

Scene 2 Capacity and Stability

Calculating Adjusted Capacity | Example 2



This load is safe to lift.

	A	B	C	CAPACITY	
in 189	24	0	5000	lb	
mm 4800	600	0	2200	kg	
in 189	30	0	4350	lb	
mm 4800	760	0	1900	kg	

$$\frac{24 \text{ in.}}{40 \text{ in.}} \times 5,000 \text{ lb.} = 3,000 \text{ lb.}$$

Now we have a 3,000-pound load with a 40-inch load center that needs to be lifted to 189 inches. Divide the rated load center (24) by the actual load center (40) and multiply by the rated capacity for a mast height of 189 inches (5,000). The adjusted capacity is 3,000 pounds. The 3,000-pound load is equal to the adjusted capacity. The load is safe to lift.

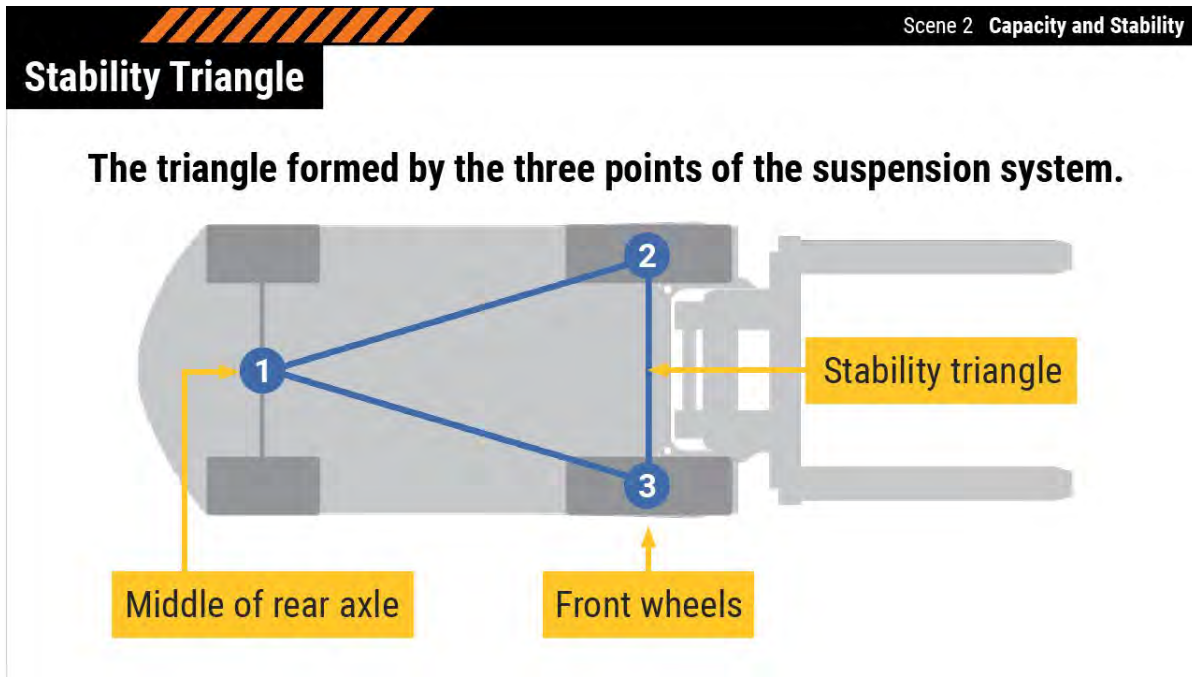
Keep in mind that adjusted capacity is an approximation. You should always err on the side of caution.

Slide 50 - Stability



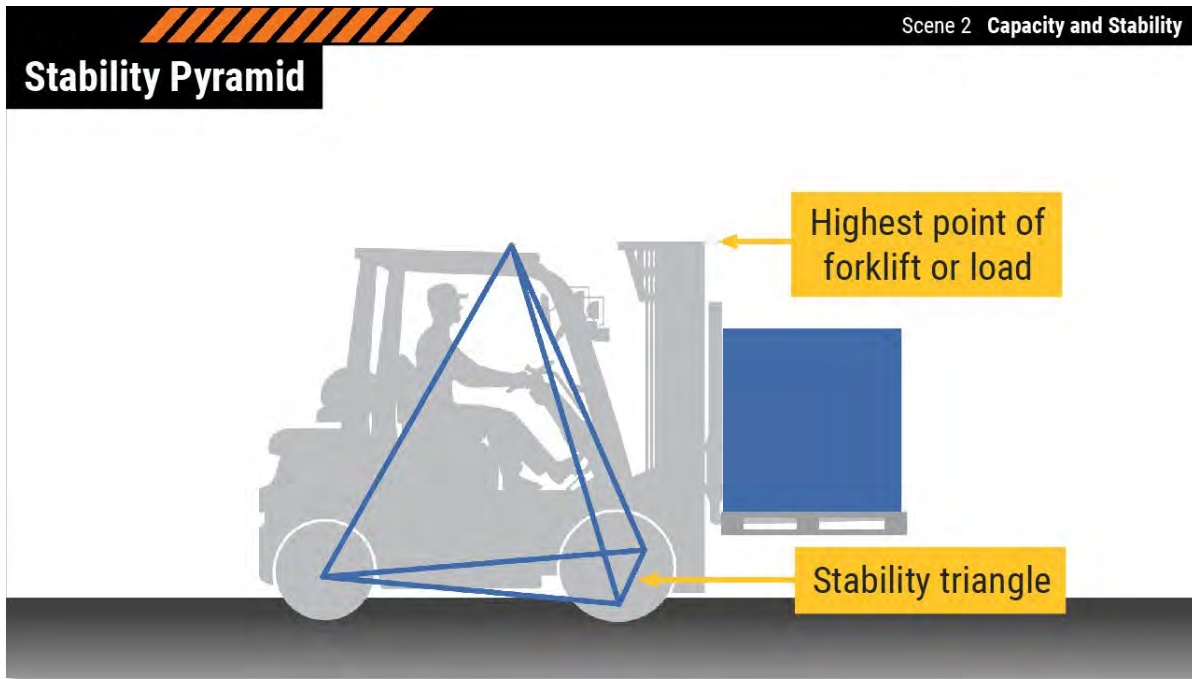
Alright, let's move on to stability. Stability is a forklift's resistance to tipping to one side, forward, or backward. To understand how stability is maintained, you'll first need to know a few key terms.

Slide 51 - Stability Triangle



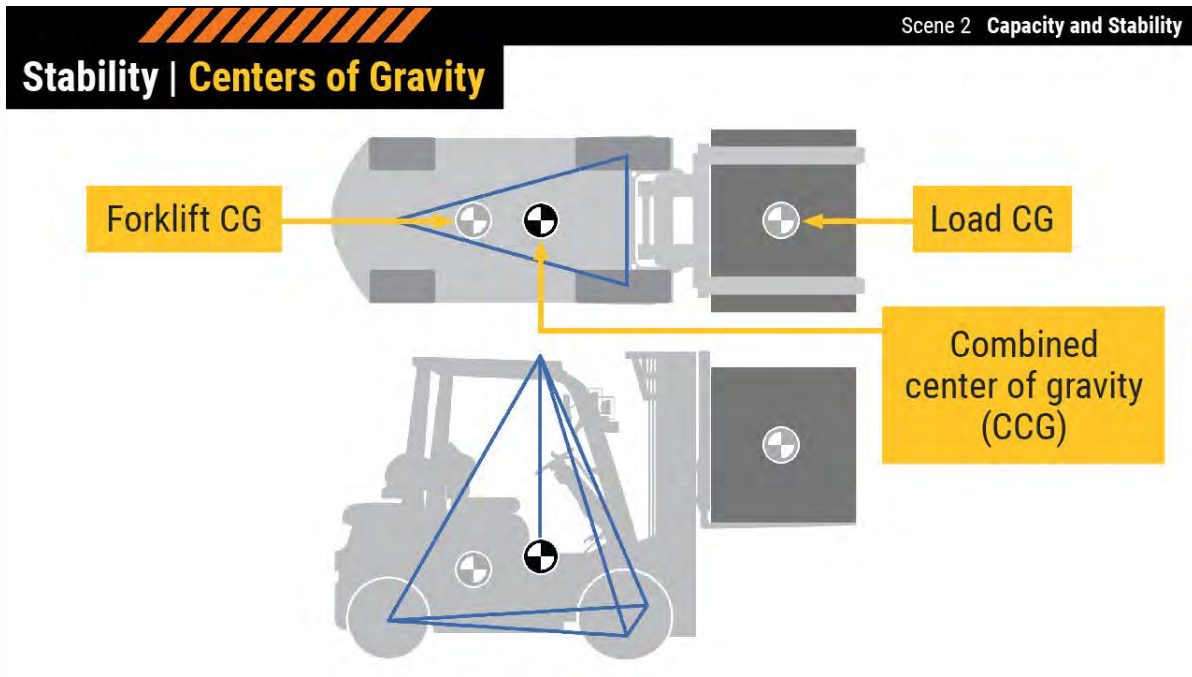
Forklifts have a suspension system formed by three points: the middle of the rear axle and the two front wheels. When these points are connected with imaginary lines, they form a triangle called the **stability triangle**.

Slide 52 - Stability Pyramid



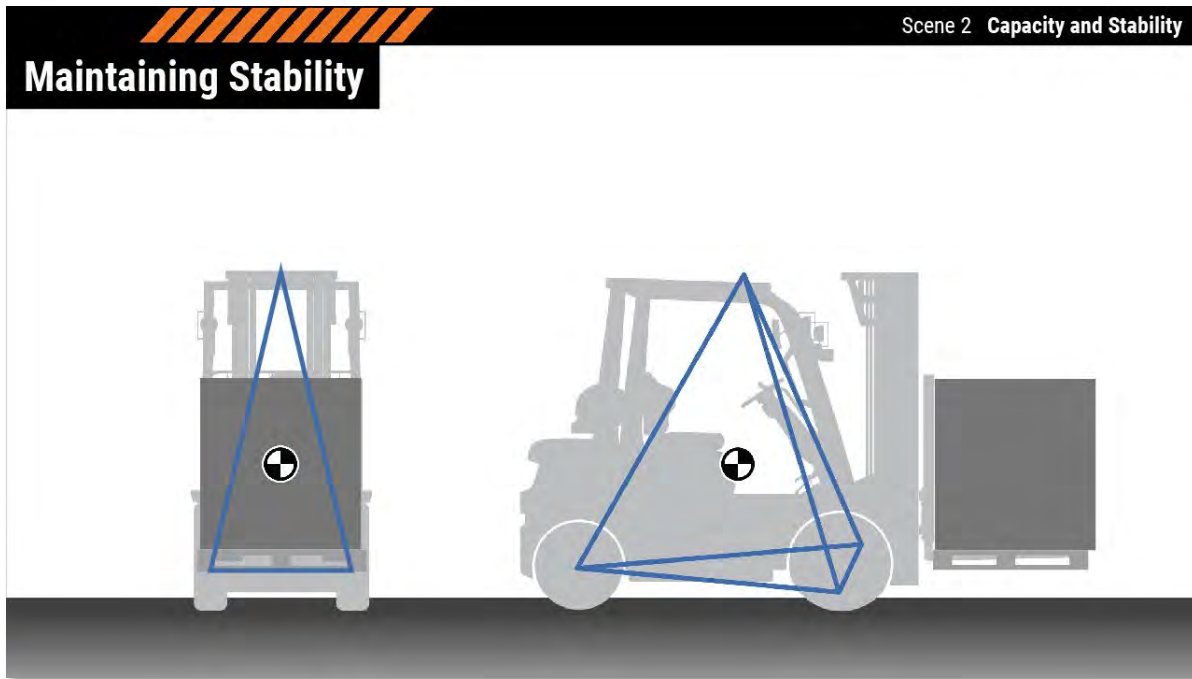
The three-dimensional view of the stability triangle is called the **stability pyramid**. The stability pyramid is formed by the stability triangle and the highest point of either the forklift or the load. From this point on, this course will use the term **stability triangle** to refer to both the stability triangle and the stability pyramid.

Slide 53 - Centers of Gravity



At the beginning of this scene, we defined **load CG**. It is the center of gravity of a load. A forklift also has its own center of gravity, called the **forklift CG**. When a load is being carried, the combination of the load CG and the forklift CG create a **combined center of gravity**, or **CCG**.

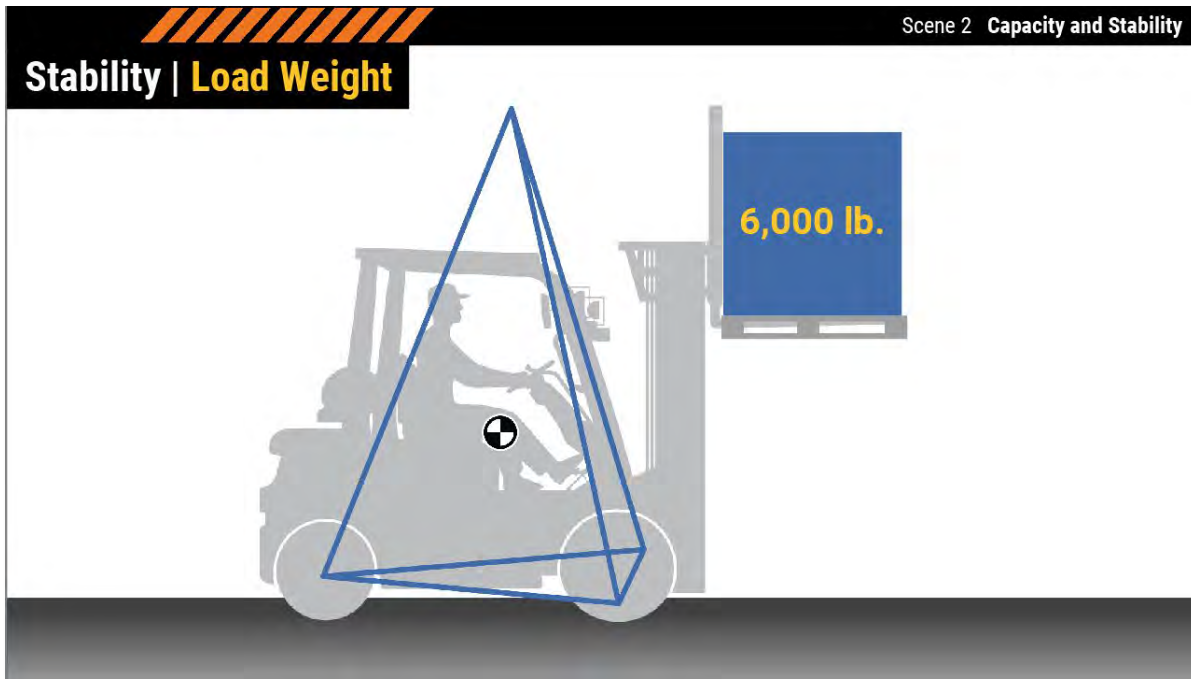
Slide 54 - Maintaining Stability



To maintain stability, the CCG must stay within the bounds of the stability triangle. It can move up and down, forward and back, and side-to-side. But, if it moves outside this area of safe operation, the forklift will tip over.

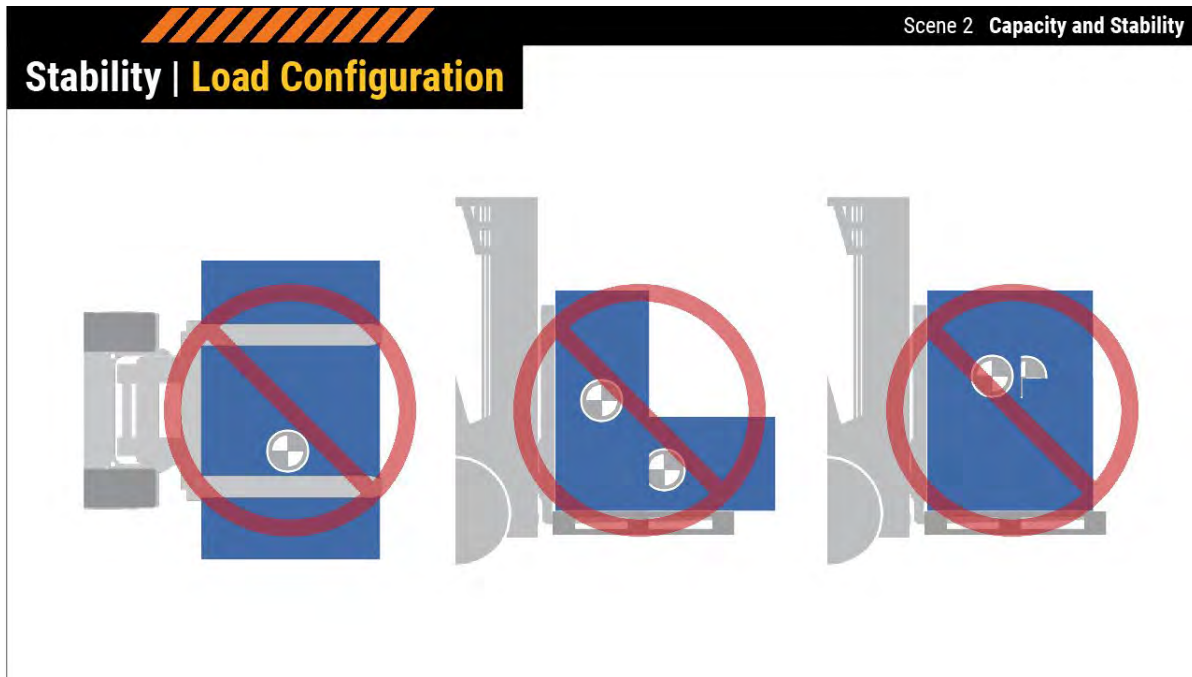
Several factors affect the position of the CCG.

Slide 55 - Load Weight



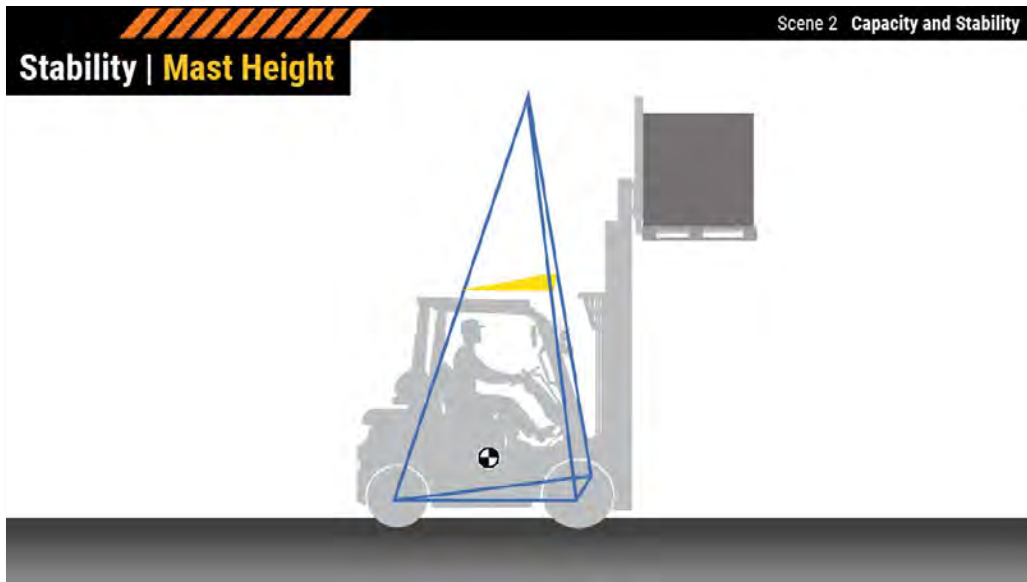
The first is load weight, which we talked about earlier when discussing capacity. As load weight increases, the CCG moves forward, toward the load. If the load weight exceeds the forklift's capacity, the CCG will move outside the stability triangle and the forklift will tip forward.

Slide 56 - Load Configuration



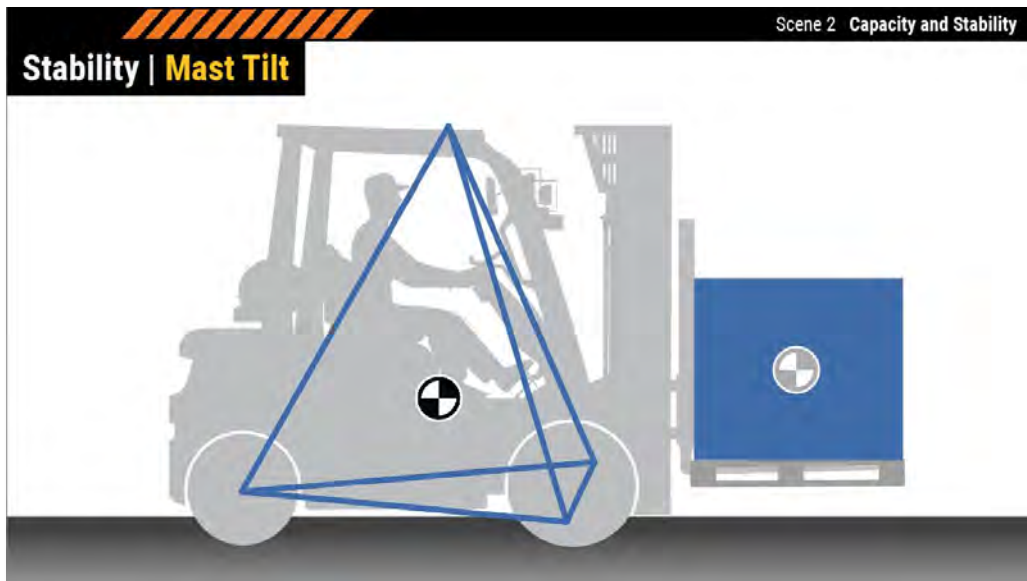
The next factor is how a load is configured on the forks. The goal is to keep the load CG centered between the forks and as close to the mast as possible. If the load is made up of multiple items, the heaviest item should be placed closest to the mast. Positioning the load properly on the forks will keep the CCG as centered as possible within the stability triangle.

Slide 57 - Mast Height



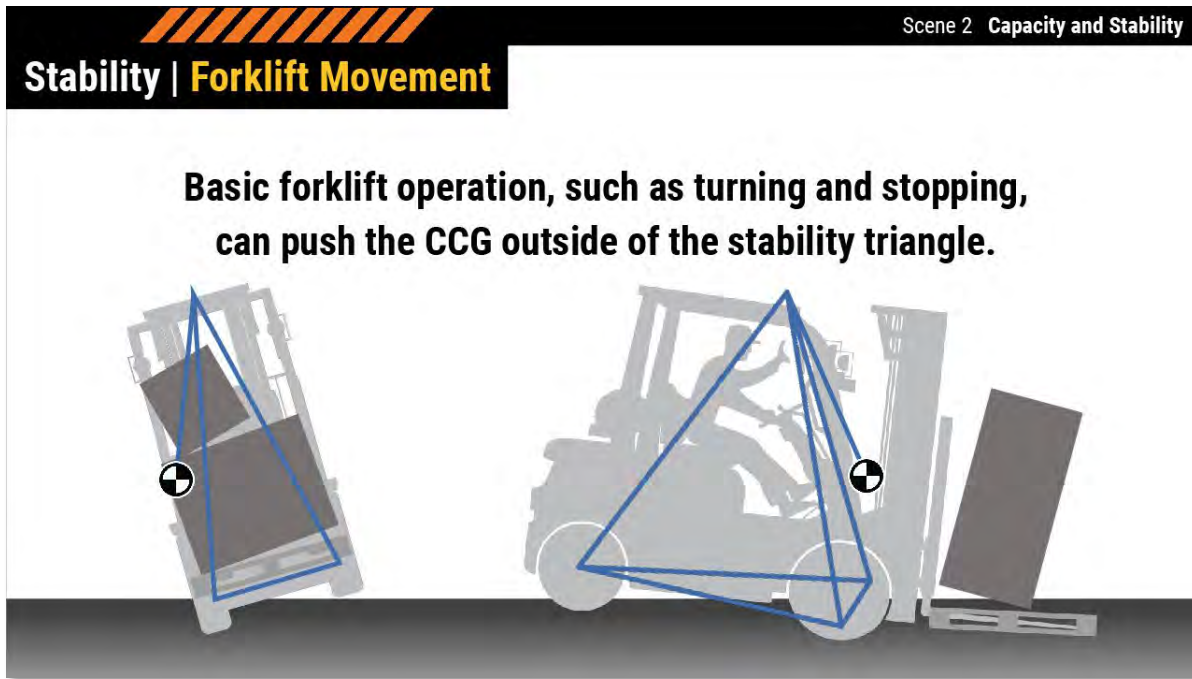
Another factor that affects stability is mast height. As the mast is raised, the area of safe operation is reduced. The CCG moves upward where the stability triangle narrows. The higher the load is lifted, the less stable the forklift becomes.

Slide 58 - Mast Tilt



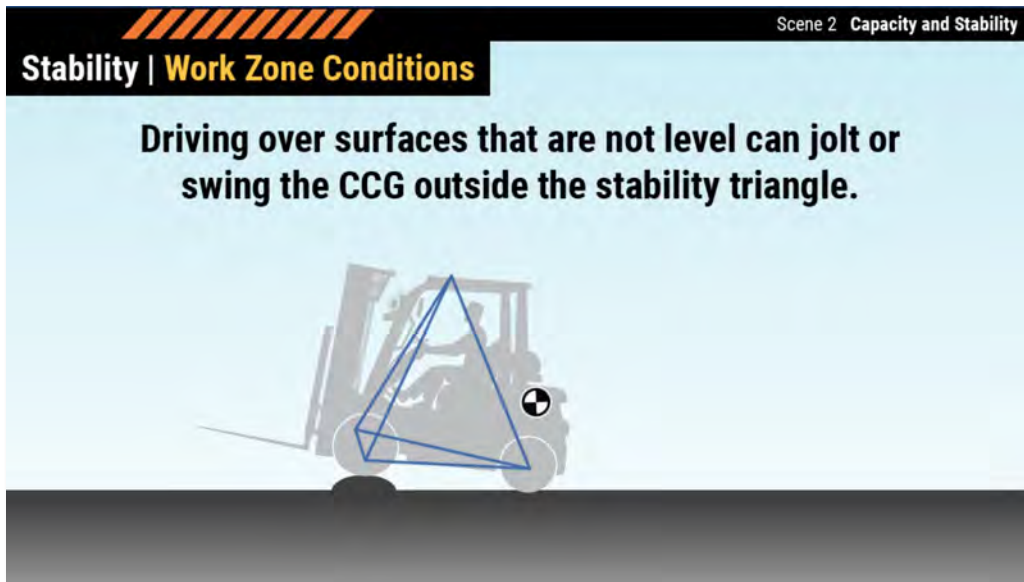
Tilting the mast back increases vehicle stability by moving the load CG closer to the fulcrum, which helps keep the CCG as centered as possible within the stability triangle.

Slide 59 - Forklift Movement

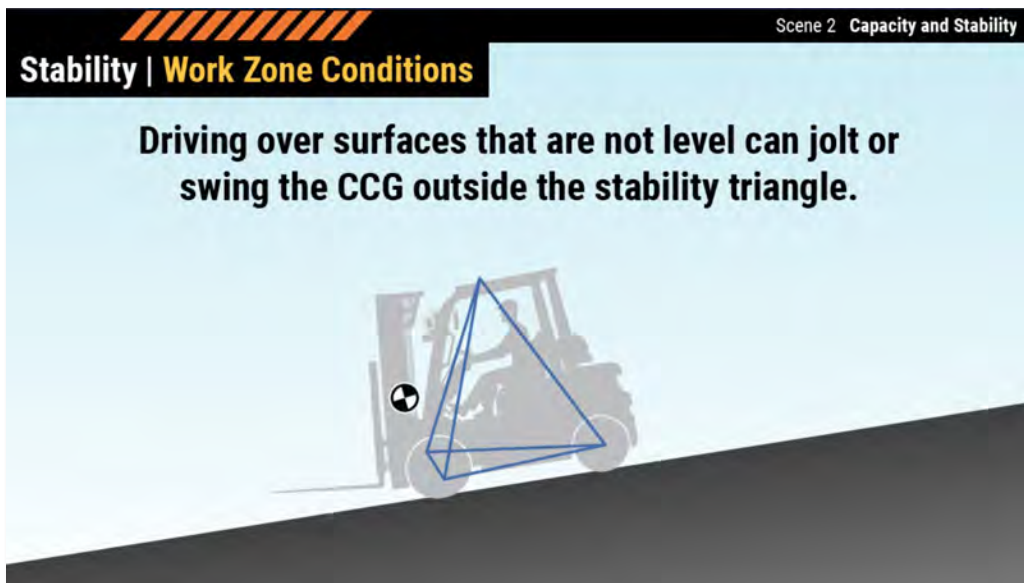


Once a forklift is in motion, basic operation, such as turning and stopping, applies force on the CCG. If the force is strong enough, the CCG can be pushed outside the stability triangle, resulting in a tip-over.

Slide 60 - Work Zone Conditions



Work zone conditions can also impact stability. Uneven surfaces, unstable ground, or ground obstructions can jolt the CCG outside the stability triangle.



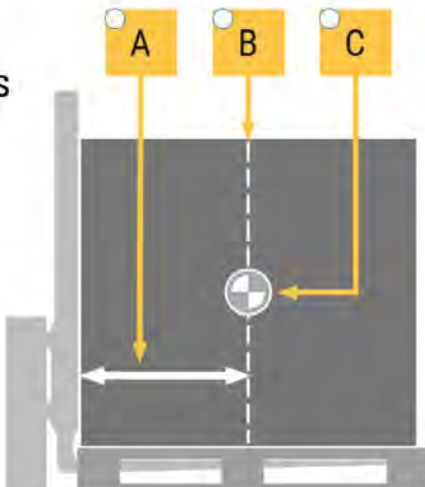
Likewise, driving on an incline can cause the CCG to swing outside the stability triangle. That brings us to the end of this scene. Let's see if you can correctly answer some review questions.

Slide 61 - Knowledge Check 3

Scene 2 Capacity and Stability

Knowledge Check 3

Select the letter that identifies the load center of the load.



Submit

Slide 62 - Knowledge Check 4

Scene 2 Capacity and Stability

Knowledge Check 4

A forklift is less stable when the mast is raised.

☐ True

☐ False



Submit


Slide 63 - Knowledge Check 5

Scene 2 Capacity and Stability


Knowledge Check 5

Which load is more stable?

A

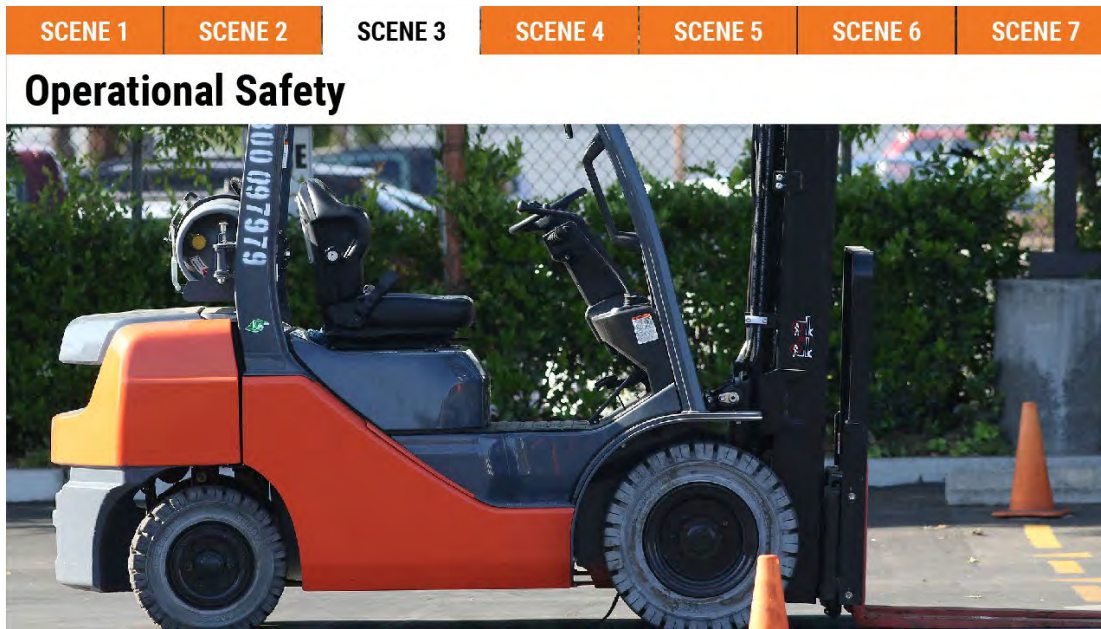


B



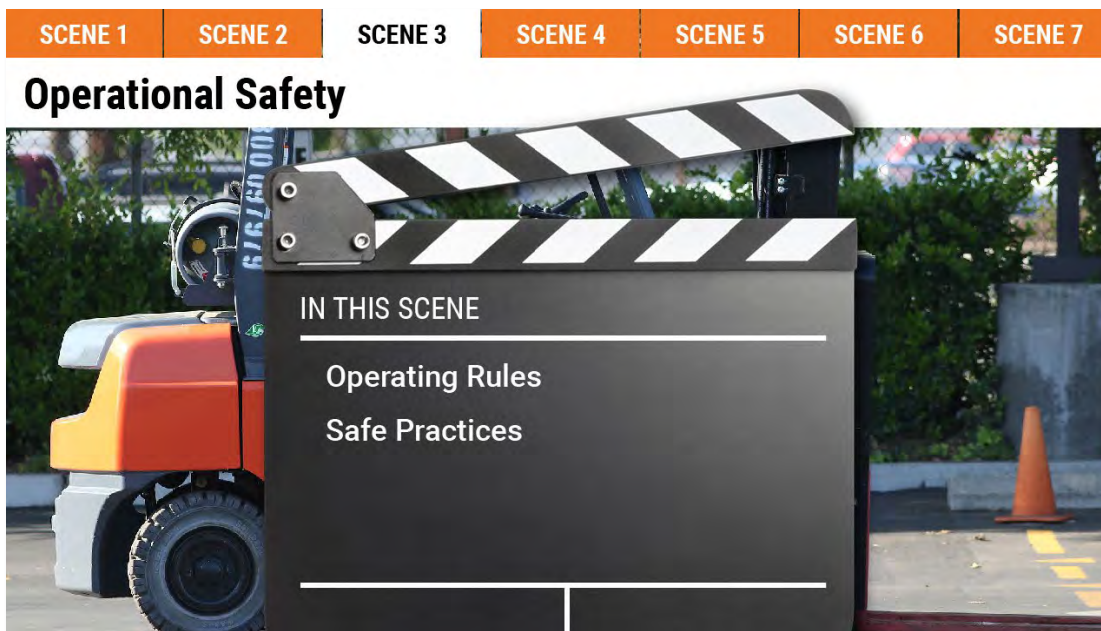
Submit

Slide 64 - Operational Safety



Scene Three, Operational Safety.

Slide 65 - In This Scene

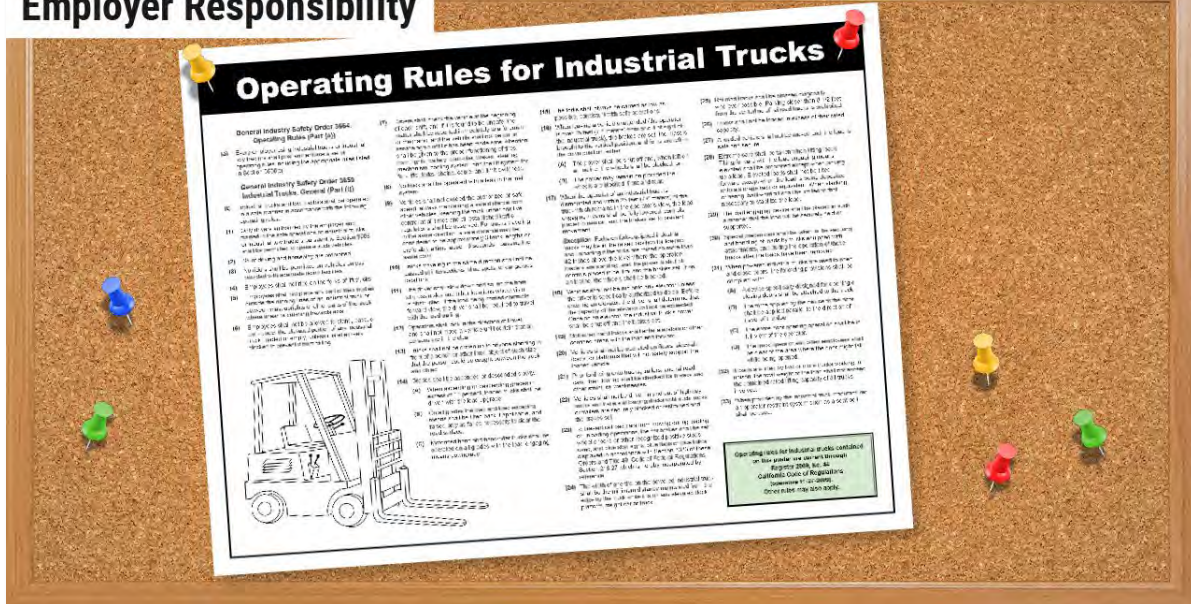


In this scene, we'll talk about the operating rules and safe practices that will help you avoid hazards.

Slide 66 - Employer Responsibility

Scene 3 Operational Safety

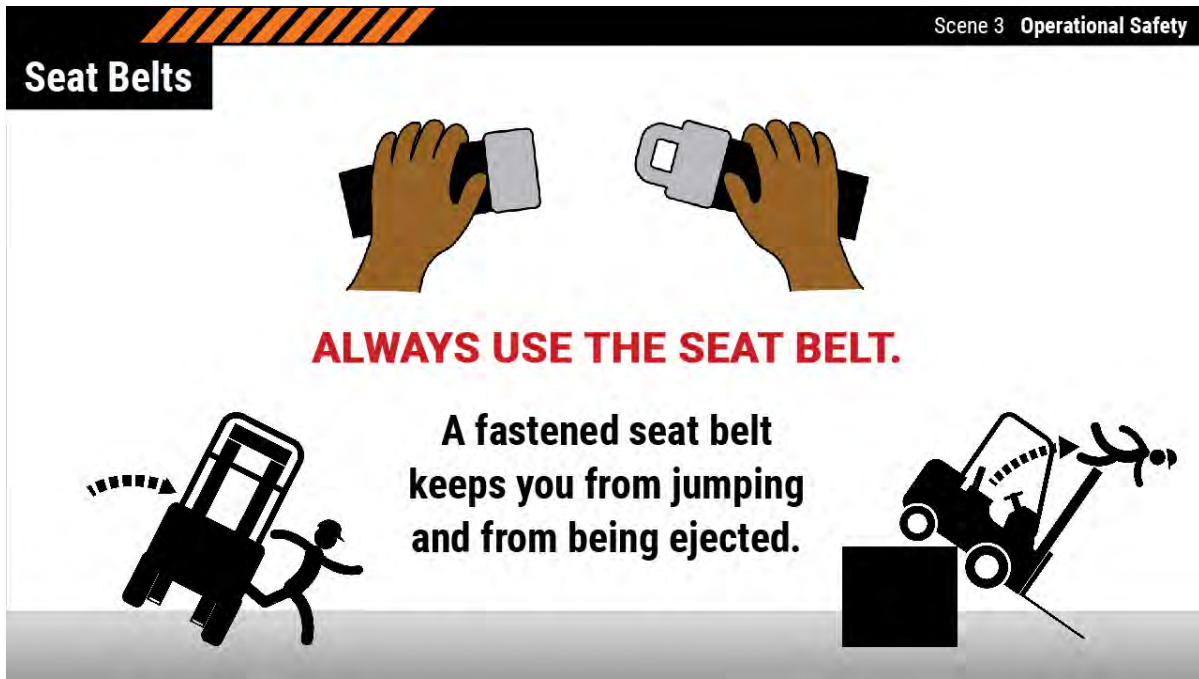
Employer Responsibility



In California, Cal/OSHA requires employers who use forklifts to post and enforce a set of operating rules specific to the work site as well as the applicable rules from "Operating Rules for Industrial Trucks." This list is available through the *Resources* icon.


If working outside California, check with your safety representative regarding applicable regulations.

Slide 67 - Seat Belts






Let's start with one of the most important and basic safety requirements--wearing the seat belt. Always wear your seat belt when operating a forklift, even if the ride is short or you get on and off the vehicle frequently. During a tip-over, a fastened seat belt keeps you from jumping from the vehicle and being crushed. A seat belt also keeps you from being ejected during a collision.

Slide 68 - Tip-Over Procedure

Scene 3 **Operational Safety**

Tip-Over Procedure

Check the operator's manual for the procedure specific to the make and model you are operating.



Hold on tight**Brace feet****Lean away**

Before operation begins, check the operator's manual for the tip-over procedure for the make and model you are operating. For sit-down vehicles, the general tip-over procedure is to hold on tightly to the steering wheel, brace your feet, and lean in the opposite direction of the tip-over.

Slide 69 - Pedestrians 1

Scene 3 Operational Safety

Pedestrians

Operators

Yield to pedestrian traffic.

Drive slowly.

Do not drive up to anyone standing in front of a fixed object.





Unfortunately, crushing injuries to workers and other pedestrians from collisions and falling loads is an all-too-common occurrence. It is the operator's responsibility to watch out for and yield to pedestrian traffic, to drive slowly so that there is no need to stop abruptly, and to never drive a forklift up to anyone standing in front of a fixed object.

Slide 70 - Pedestrians 2

Scene 3 Operational Safety

Pedestrians

Workers

Use pedestrian walkways.

Stop, look, and listen for traffic.

Look for back-up lights.

Listen for back-up alarms.

Don't wear so much hearing protection that you can't hear.

Stand clear and be aware of wide rear swing.

Make eye contact with operator.



Workers can do their part to keep themselves safe by following these safe practices:

Use pedestrian walkways when possible.

Stop, look, and listen for traffic.

Look for back-up lights and listen for back-up alarms.

Don't wear so much hearing protection that you can't hear activity around you.

Stand clear of forklifts when in operation.

Remember that the rear of the vehicle will swing out when turning.

Finally, try to make eye contact with the operator to confirm they see you.

Slide 71 - Traveling 1

Scene 3 Operational Safety

Traveling

Operators

- Do not engage in stunt driving or horseplay.
- Do not exceed authorized safe speed.
- Follow traffic regulations and signs.
- Keep vehicle under control.



The main hazards when traveling are collisions with pedestrians or objects, falling loads, and tip-overs. Operators: Do not engage in stunt driving or horseplay or exceed the authorized safe speed. Follow all traffic regulations and signs. It is your job to keep the vehicle under control.

Slide 72 - Traveling 2

Scene 3 Operational Safety

Traveling

Operators


- Maintain safe distance from other vehicles.

Three vehicle lengths OR Three seconds passing the same point



Maintain a safe distance from other vehicles. A safe distance is considered three vehicle lengths or a time lapse of three seconds passing the same point.

Slide 73 - Traveling 3

Scene 3 **Operational Safety**

Traveling

Operators

- Do not pass at intersections or blind spots.
- Slow down and sound horn when vision is obstructed.
- If load obstructs view, drive in reverse.
- Look in direction of travel.
- Carry forks as low as possible.
- Drive slowly over uneven, wet, and slippery surfaces.
- Cross railroad tracks at an angle.

Do not pass another forklift traveling in the same direction at intersections, blind spots, or other dangerous locations.

Slow down and sound the horn at intersections or where vision is obstructed.

If a load obstructs the view, drive in reverse.

Look in the direction of travel, and keep a clear view of the path of travel.

Carry the forks as low as possible. This will usually be a few inches off the ground.

Drive slowly over uneven, wet, and slippery surfaces.

And, cross railroad tracks at an angle.

Slide 74 - Traveling 4

Traveling


Scene 3 **Operational Safety**

Workers

Do not assume the operator can see you.

Be aware that a sudden stop can cause a tip-over or falling load.


When spotting for operators, point out traffic and obstructions.

An illustration showing a forklift operator moving a pallet of boxes. A worker is standing nearby, and one box is falling towards them, indicated by a starburst effect. On the ground, there are obstructions: a coiled hose and some wooden planks.

Workers: Do not assume that the forklift operator can see you. Try to make eye contact.

Remember, forklifts are heavy, and a sudden stop can cause it to tip forward or the load to fall. If you're working as a spotter, point out dangers like traffic and road obstructions including hoses, cords, and scraps of wood.

Slide 75 - Load Handling 1

Scene 3 **Operational Safety**

Load Handling

Do not exceed rated capacity.

Do not raise or lower the forks unless the forklift is stopped and the brake is set.

Place forks under the load as far as possible.

Ensure forks are at least $\frac{2}{3}$ the length of the load.

Never push a load with the forks ("bulldozing").

Here are some general ways operators can prevent load-handling hazards like falling loads, tip-overs, and crushing injuries.

Do not load a forklift in excess of its rated capacity.

Do not raise or lower the forks unless the forklift is stopped and the brake is set.


Be sure to place the forks under the load as far as possible.

The load should be up against the face of the forks.

The forks must be at least two-thirds the length of the load. If they are not, a different forklift or attachment must be used.

Do not push a load with the forks. This is called "bulldozing" and should never be done.

Slide 76 - Load Handling 2

Scene 3 **Operational Safety**

Load Handling

- Tilt load back to increase stability.**
- Do not move until load is safe and secure.**
- Check clearance along the route.**
- Carry the load as low as possible.**
- Check for an even surface when picking up or placing a load.**

Tilt the load back to increase stability.

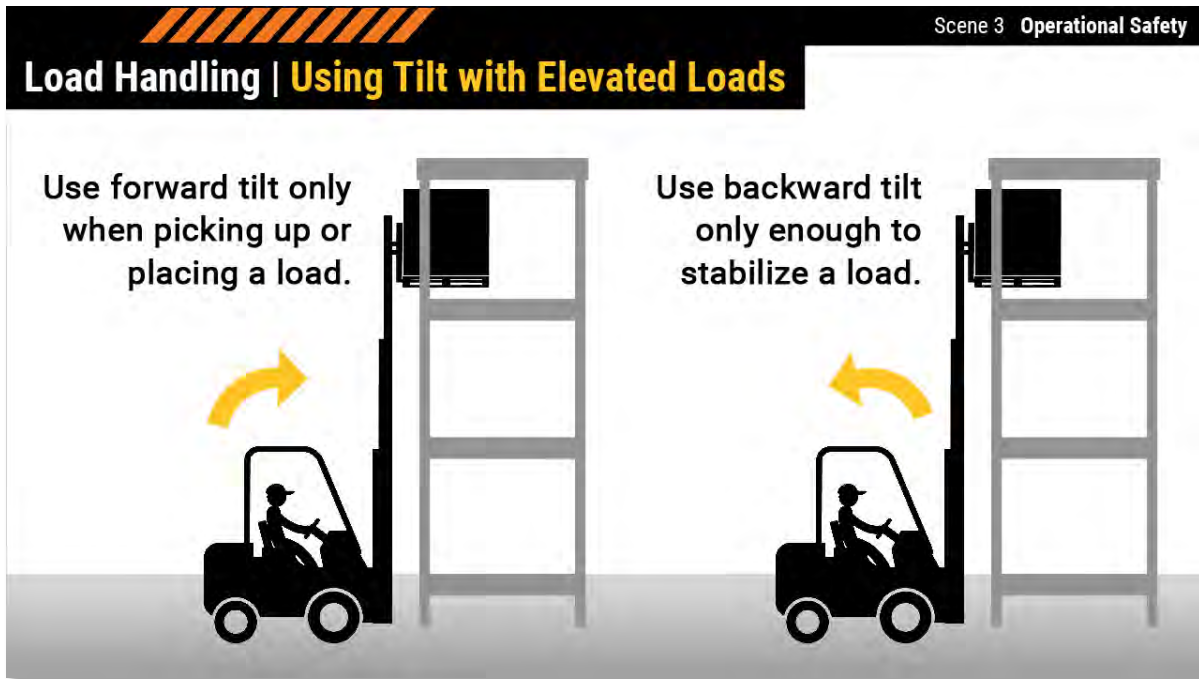
Do not move the vehicle until the load is safe and secure on the forks.

Check the route for sufficient clearance for both the forklift and the load.

Carry the load as low as possible.

And, when inserting or removing forks, check that the forklift is on an even surface. Bumps or potholes can cause the forks to inadvertently hit the pallet or load.

Slide 77 - Using Tilt with Elevated Loads



While backward tilt is recommended for stability when transporting a load, using tilt when a load is elevated can result in a falling load or a tip-over. When a load is elevated, use forward tilt only when picking up or placing the load, and use backward tilt only enough to stabilize the load.

Slide 78 - Suspended Loads

Scene 3 Operational Safety

Load Handling | Suspended Loads

Use approved attachment.


Check capacity of attachment.

Tether the load.

Adjust speed for terrain.

Start, travel, turn, and stop slowly.

Do not exceed walking speed.



It is unlikely that a standard Class V vertical mast forklift will be used for suspended loads in our industry, as there are bigger machines better suited for this type of activity. Regardless, carrying a suspended load requires that an attachment approved for suspended loads is used, such as a lifting hook.

Always check the capacity for the attachment. Tether the load to restrict movement. If the load swings, the CCG could be pushed outside the boundaries of the stability triangle.

Inspect the conditions of the terrain, and adjust your speed accordingly. Any bump or pothole could cause the load to swing.

Start, travel, turn, and stop slowly.

Do not exceed walking speed.

Finally, do not allow anyone to stand under an elevated or a suspended load.

Slide 79 - Working Around Loads 1




Workers: Do not stand too close to a forklift carrying a load, and never stand under an elevated or a suspended load.

Slide 80 - Working Around Loads 2



When helping with a load, be in communication with the operator. When helping tether a suspended load, keep a safe distance from the load. And, never adjust any load with your hands. This can result in crushing injuries.

Slide 81 - Operating on Inclines

Scene 3 **Operational Safety**

Operating on Inclines

Ensure surface is free from slippery substances.

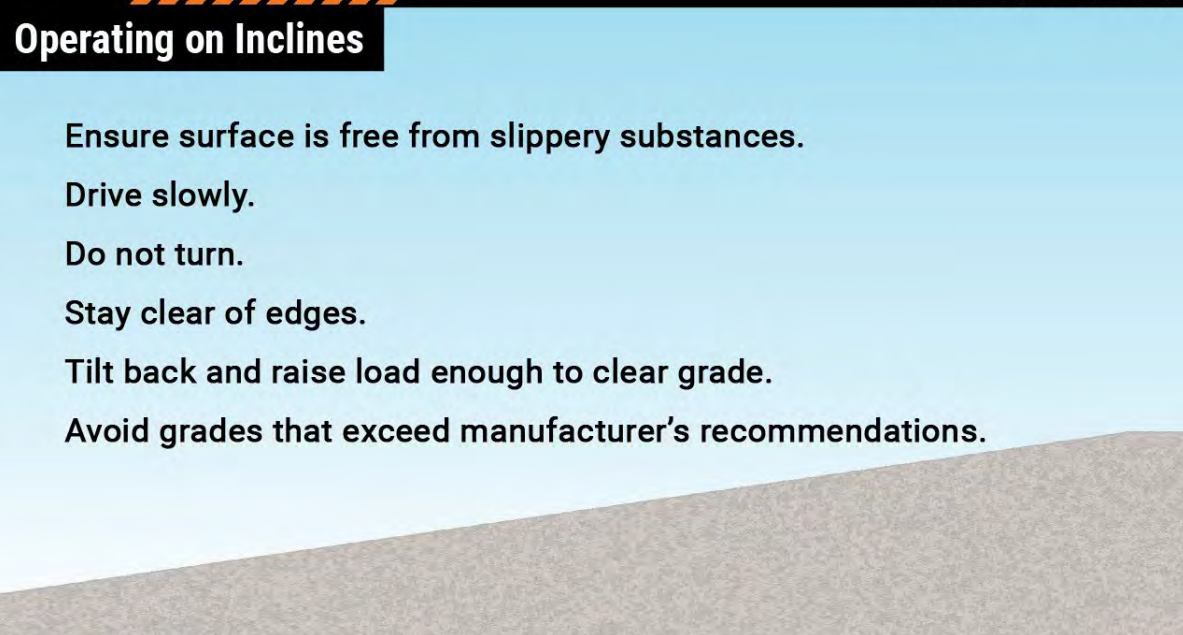
Drive slowly.

Do not turn.

Stay clear of edges.

Tilt back and raise load enough to clear grade.

Avoid grades that exceed manufacturer's recommendations.



When inclines are part of your work environment, there's a greater risk of falling loads and tip-overs.

Before driving on an incline, make sure the driving surface is free from slippery substances like grease, sand, and gravel.

Drive slowly.

Do not turn while on an incline.

Stay clear of edges.

Tilt the load back and raise the forks only as much as is necessary to clear the grade.

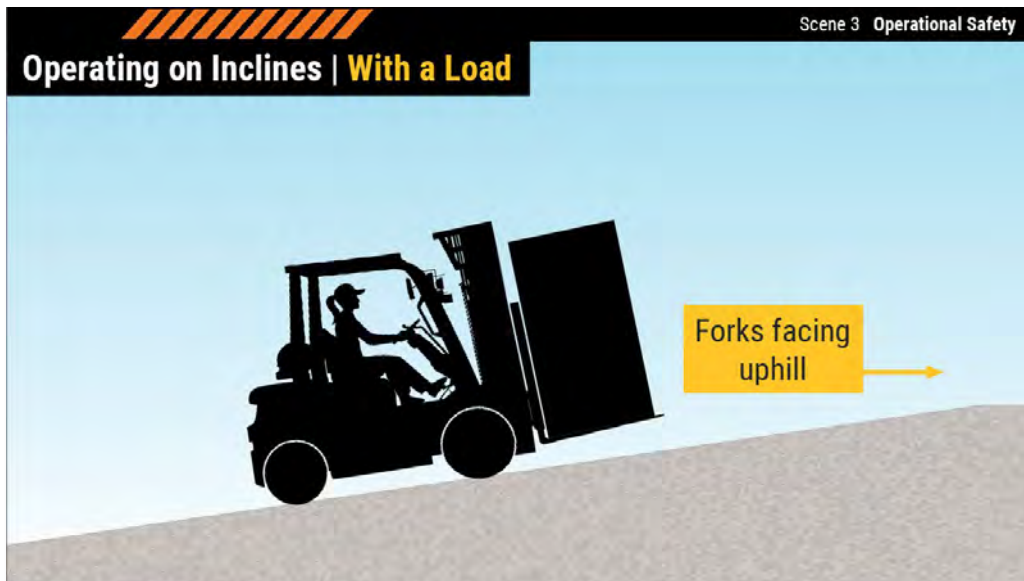
And, avoid grades that exceed the manufacturer's recommendations.

Slide 82 - Without a Load



When traveling on an incline *without* a load, keep the forks on the downhill side of the vehicle. Otherwise, a rearward tip-over is possible. Drive forward when going downhill. Drive in reverse and look in the direction of travel when going uphill.

Slide 83 - With a Load



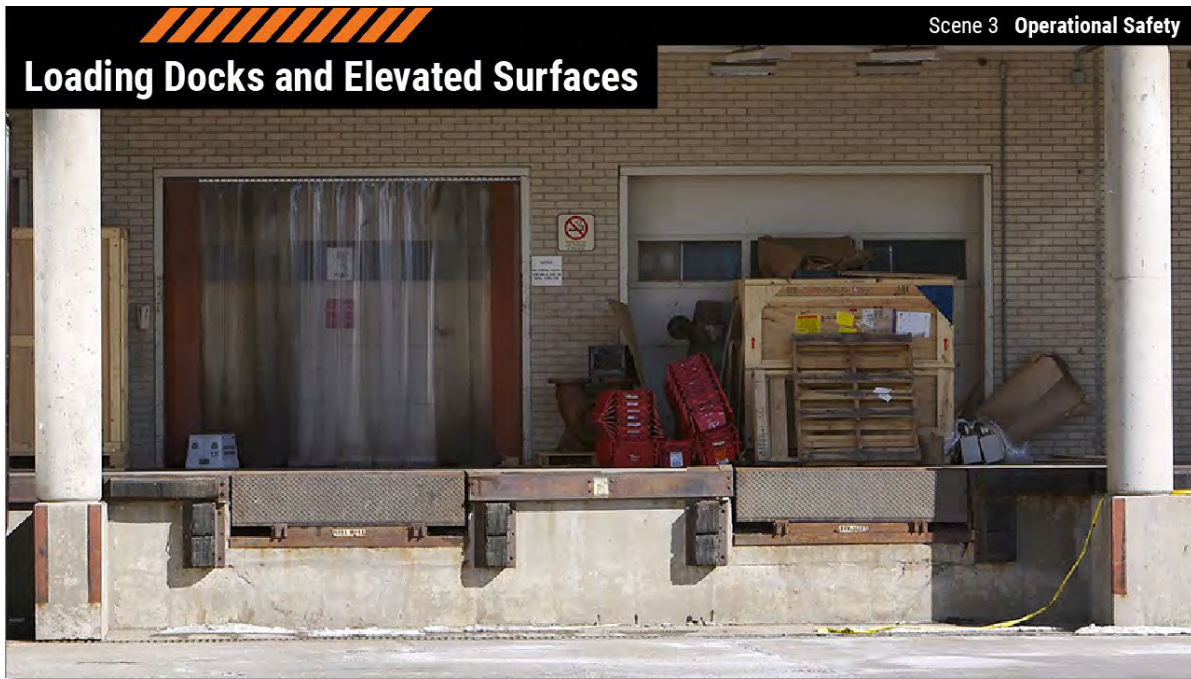
When traveling on an incline *with* a load, keep the forks on the uphill side of the vehicle. Otherwise, the load may fall off the forks. Drive forward when going uphill. Use a spotter if the view is obstructed. Drive in reverse and look in the direction of travel when going downhill.

Slide 84 - With a Pallet Jack



To keep a motorized or hand pallet jack from rolling into you, keep the forks pointed downhill regardless of whether there is a load on the forks or not.

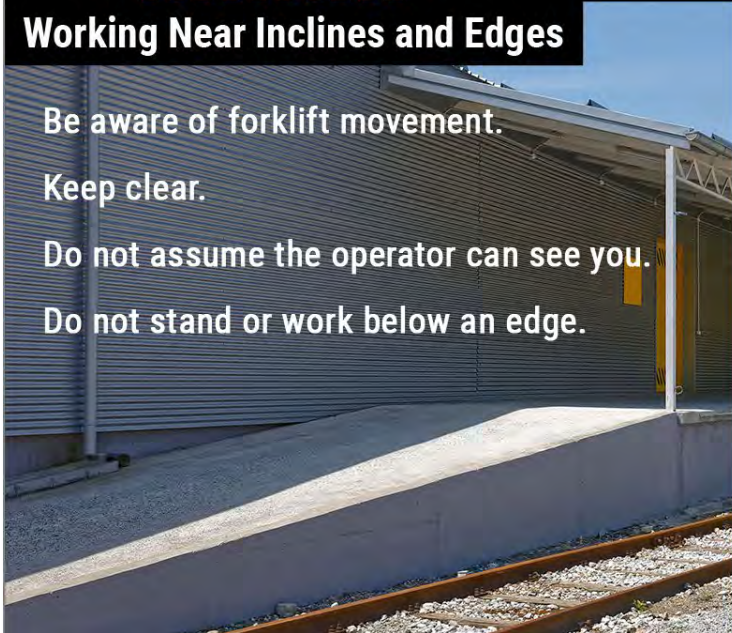
Slide 85 - Loading Docks and Elevated Surfaces



When operating on a loading dock or another elevated driving surface, a major safety issue is driving off the edge. This type of tip-over can cause serious crushing injuries.

Maintain a distance of at least one tire width from any edge. And, it is especially important on loading docks to be careful of the rear swing of the vehicle when turning.

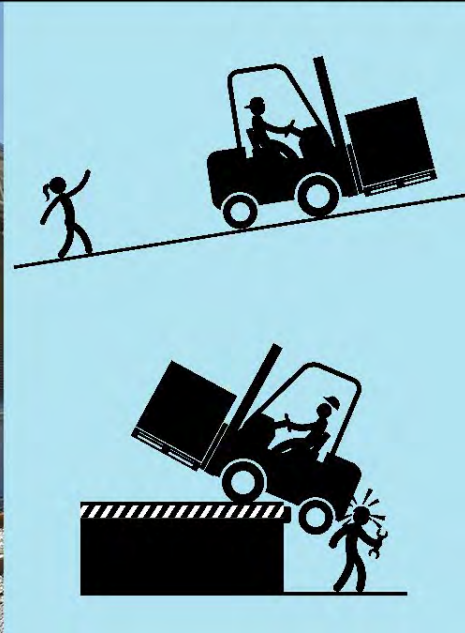
Slide 86 - Working Near Inclines and Edges



Working Near Inclines and Edges

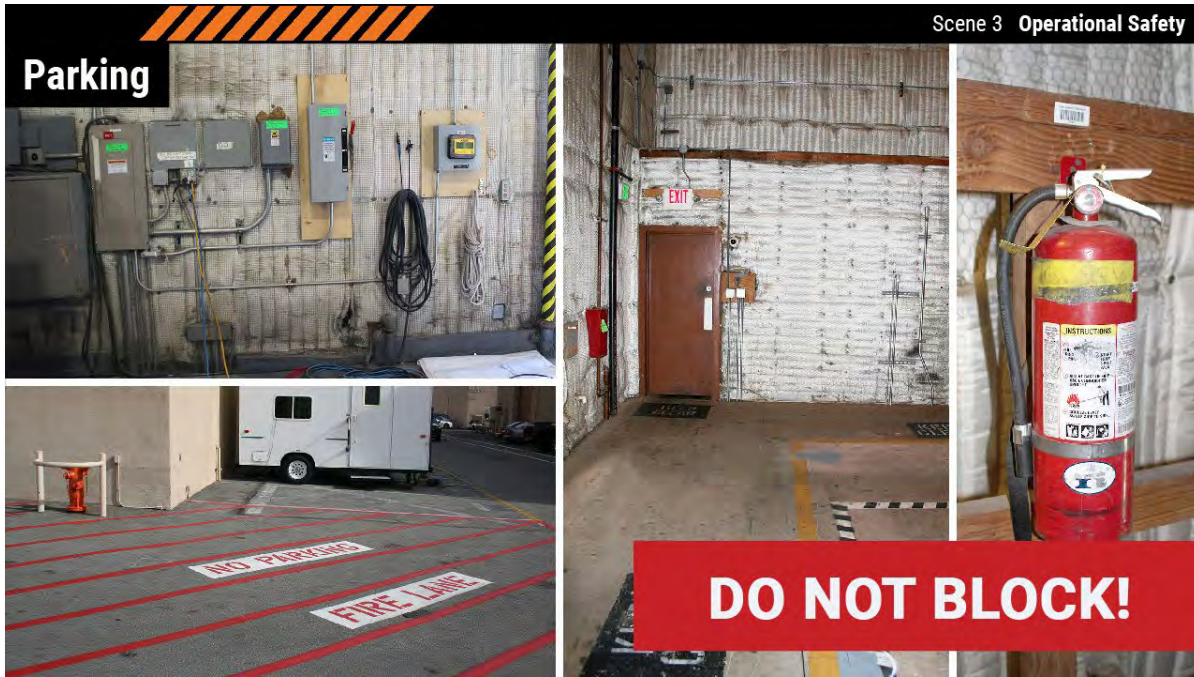
Be aware of forklift movement.
Keep clear.
Do not assume the operator can see you.
Do not stand or work below an edge.

Scene 3 Operational Safety



If you are working near a forklift on an incline or edge, be aware of the vehicle's movement and keep clear. Do not assume that the operator can see you. Also, do not stand or work below an edge where a forklift is in operation.

Slide 87 - Parking



Improper parking can cause collisions and crushing injuries.

Park only in designated areas and away from heat sources.

Do not park closer than eight and a half feet from the centerline of railroad tracks. Employers and railroad companies may require a greater distance, so be sure to follow their guidelines. Improper parking can also impede firefighting efforts.

Never block electrical controls, exits, fire lanes, fire extinguishers, or other emergency equipment.

Slide 88 - Parked Forklifts

Scene 3 Operational Safety

Parked Forklifts

Be aware of the parked forklifts around you.

Do not sit against or next to a parked forklift or between a parked forklift and another object.



Parked forklifts can move unexpectedly, causing collisions and crushing injuries. Be aware of the parked forklifts around you.

Do not sit against or next to a parked forklift or between a parked forklift and another object.

Slide 89 - Avoiding Falls 1



A fall is another serious hazard for both operators and workers. Operators, to avoid being injured when mounting or dismounting a forklift, face the vehicle and always maintain three points of contact.

Slide 90 - Avoiding Falls 2



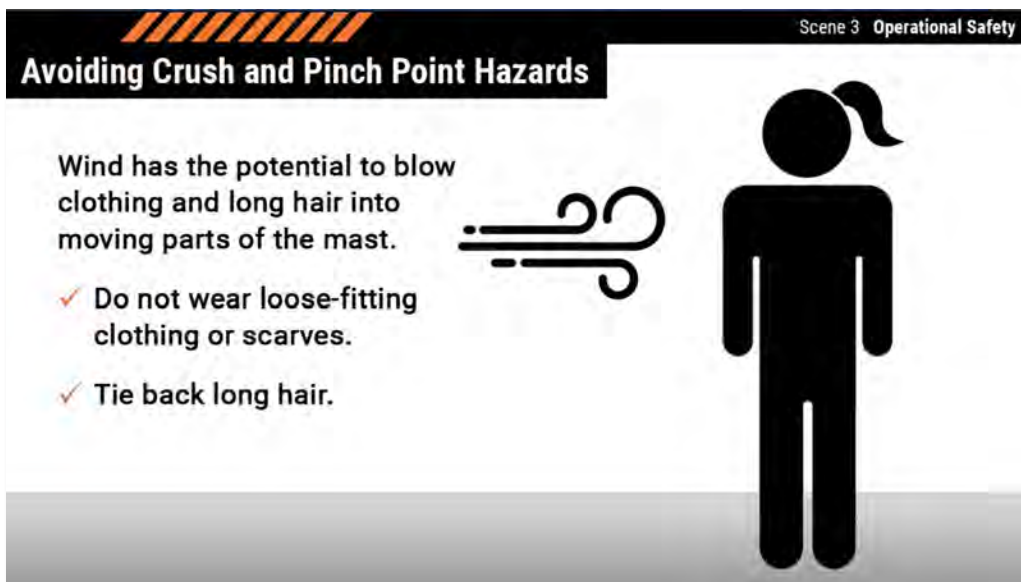
To keep your coworkers safe, DO NOT allow anyone to ride on the forklift or the forks, use only manufacturer-approved attachments to elevate workers to work positions, and ensure that any worker who is being lifted is wearing the required personal fall protection equipment (abbreviated as PFPE).

We'll talk more about elevating workers in the next scene.

Slide 91 - Avoiding Crush and Pinch Point Hazards 1



Crush and pinch point hazards are dangerous areas on or around a forklift where one's body or a body part could get caught, resulting in potentially serious injuries. Do not place any part of your body through the mast or mast chains, between the mast and cab, between a wheel and the forklift, or near any other moving parts of the vehicle.



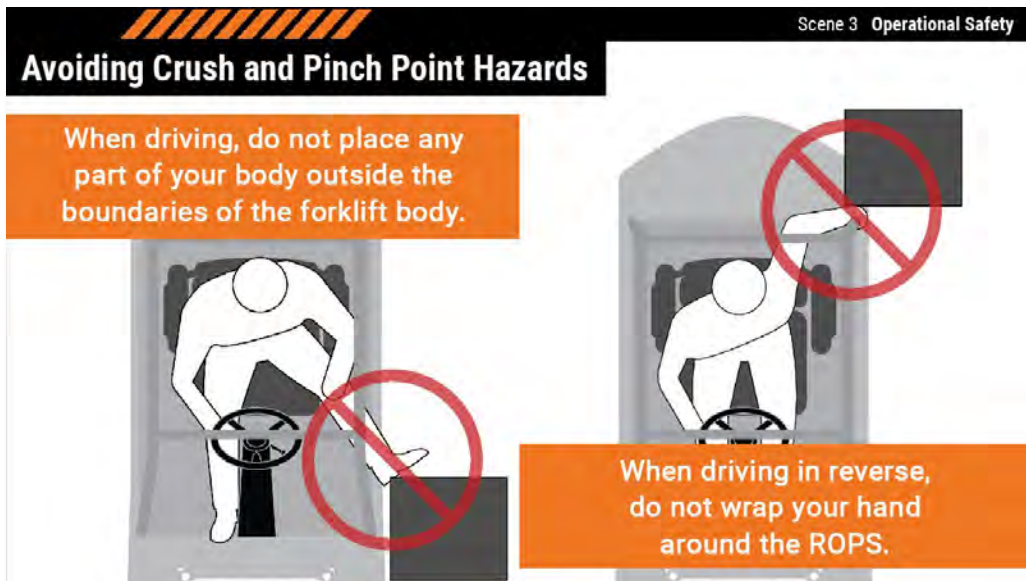
Wind has the potential to blow clothing and long hair into moving parts of the mast. Do not wear loose-fitting clothing or scarves and tie back long hair.

Slide 92 - Avoiding Crush and Pinch Point Hazards 2



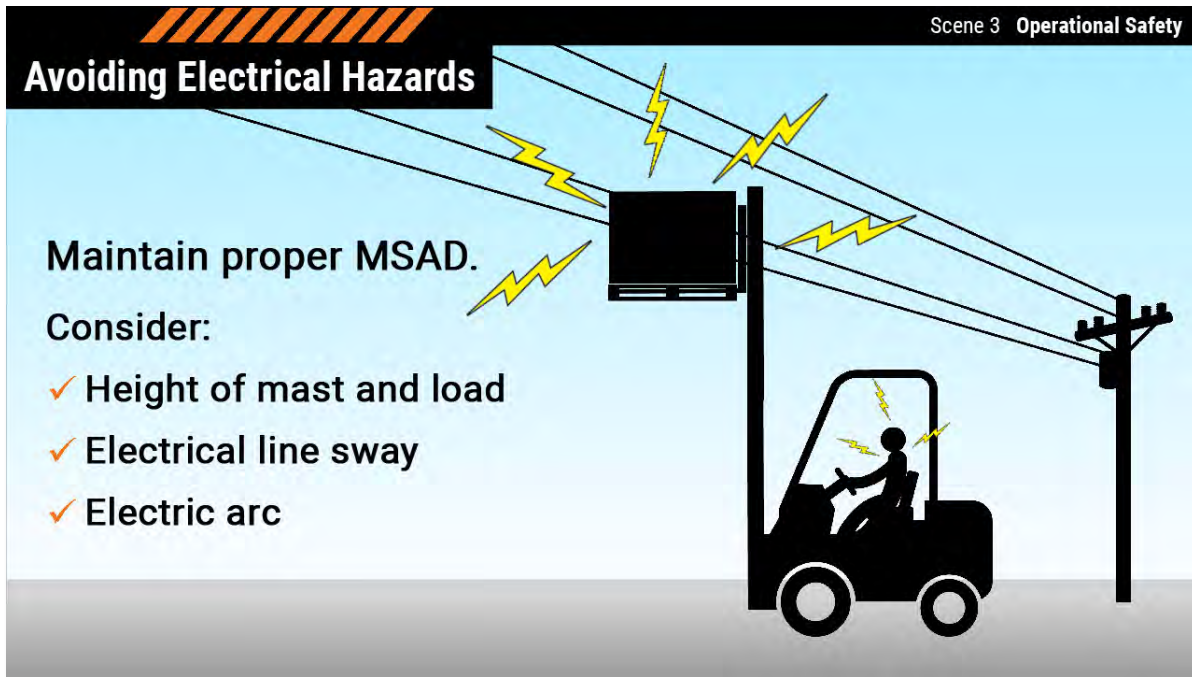
Do not stand, pass, or work under raised forks. Although unlikely, in the event that the hydraulics fail, even empty forks can crash down hard. Do not adjust a load with your hands or try to stop a load from falling.

Slide 93 - Avoiding Crush and Pinch Point Hazards 3



Operators, watch your hands and feet. When driving, do not place any part of your body outside the boundaries of the forklift body. And, when driving in reverse, do not wrap your hand around the rollover protective structure.

Slide 94 - Avoiding Electrical Hazards



To avoid electrical hazards, maintain the proper minimum safe approach distance, or MSAD, from energized overhead lines. To determine a safe distance, take into account the maximum height of the mast and the load being carried, electrical line sway, and electric arc, where electricity can jump from a line to another object. An energized line does not need to be touched to cause damage or injury.

[Click here to view Safety Bulletin #22A, Power Line Distance Requirements.](#)

Let's wrap up this scene with some knowledge checks.

Slide 95 - Knowledge Check 6

Scene 3 Operational Safety

Knowledge Check 6

What are some ways workers can avoid injury from a forklift?

Select all that apply.

- ☐ A. Look for the back-up light
- ☐ B. Listen for the back-up alarm
- ☐ C. Use pedestrian walkways
- ☐ D. Be aware of the rear swing of a forklift

Submit

Slide 96 - Knowledge Check 7

Scene 3 Operational Safety

Knowledge Check 7

This load is safe and secure on the forks.

- ☐ True
- ☐ False



Submit

Slide 97 - Knowledge Check 8

Scene 3 Operational Safety

Knowledge Check 8

Which type of accident is most likely to result from adjusting a load with your hands?

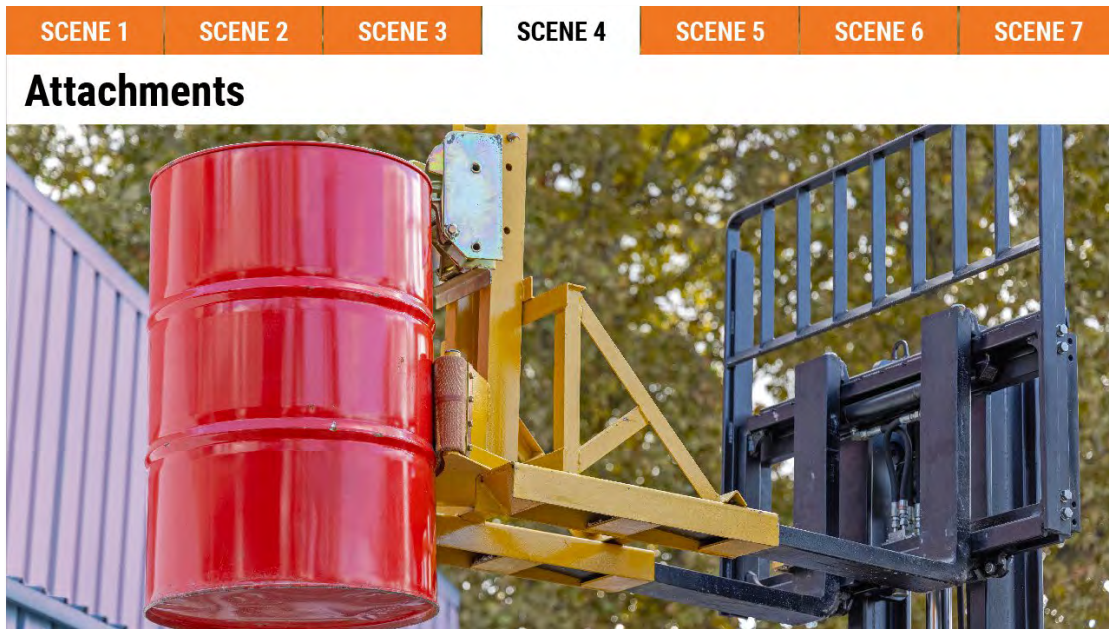
- ☐ A. Tip-over
- ☐ B. Collision
- ☐ C. Fall from height
- ☐ D. Crushing injury



Submit

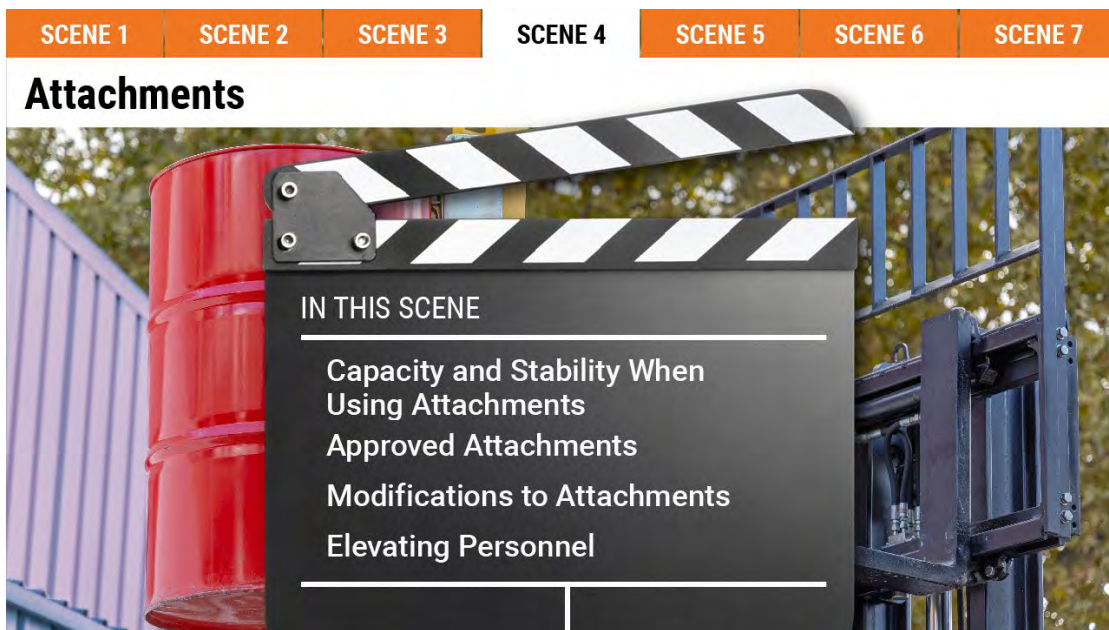
The illustration shows a forklift operator in silhouette, seated on an orange forklift. The operator is reaching out with their right hand to touch or adjust a stack of four cardboard boxes that are resting on the forklift's forks. The boxes are arranged in a 2x2 grid. The background is white, and the forklift is orange with black tires and mast.

Slide 98 - Attachments



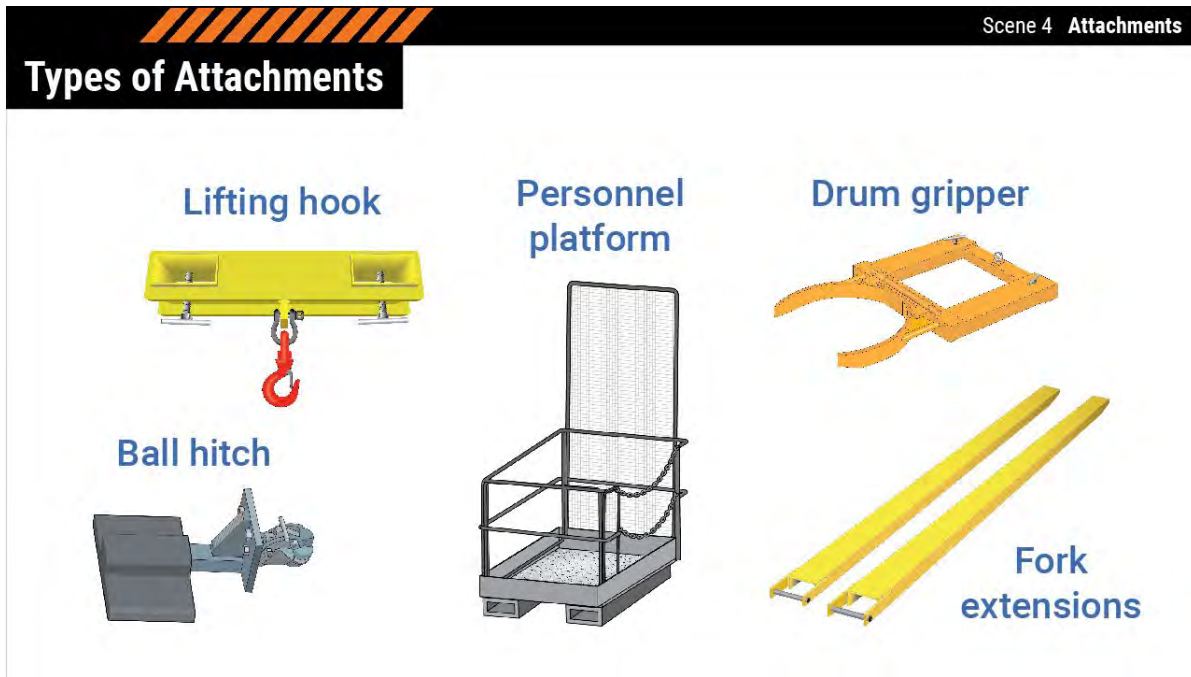
Scene Four, Attachments.

Slide 99 - In This Scene




In this scene, we'll discuss the impact of forklift attachments on capacity and stability, approved attachments, modifications to attachments, and precautions to follow when elevating personnel with approved attachments.

Slide 100 - Types of Attachments



Attachments are job-specific tools designed to extend the capabilities of forklifts. They allow forklifts to tow trailers, hoist props, lift personnel, carry cargo drums, transport non-standard-sized loads, and more. Many attachments for Class V forklifts are attached to the vehicle's forks, though some may attach directly to the carriage.


Slide 101 - Capacity and Stability

Scene 4 Attachments

Capacity and Stability When Using Attachments

Operators must be trained on each type of attachment.

The weight and type of attachment may **reduce capacity** and make the vehicle **less stable**.



Forklift operators must be trained on how to use each type of attachment. The weight and type of attachment may reduce capacity and make the vehicle less stable, increasing the chance of a tip-over.


Slide 102 - Maintaining Stability

Scene 4 Attachments


Maintaining Stability

Pay attention to speed, cornering, stopping, and inclines.


Carry load as low as possible.



If load is suspended, use tethering device.



Operate an unloaded forklift with an attachment as if partially loaded.




To help maintain stability, operate a forklift with an attachment with heightened attention to speed, cornering, stopping, and inclines; carry the load as low as possible; and if the attachment suspends the load, use a tethering device to restrict sway. Even if there is no load, a forklift with an attachment must be operated as if partially loaded.

Slide 103 - Attachment Rated Capacity

Scene 4 Attachments

Attachment Rated Capacity



Attachment data plate


If rated capacity of vehicle and attachment are not equal, use lesser value to determine if load can be lifted.

If load weight exceeds lesser value, do not lift load.

Do not use an attachment if its data plate is missing.

Each attachment has its own rated capacity, listed in the attachment manual and on a data plate mounted to the attachment itself. If the rated capacity of the vehicle and the rated capacity of the attachment are not equal, use the lesser value to determine if a load can be lifted. If the load weight exceeds the lesser value, do not lift the load. Do not use an attachment if its data plate is missing.

Slide 104 - Approved Attachments

Scene 4 Attachments

Approved Attachments

If a forklift is equipped with an attachment other than a factory-installed attachment, it must be marked to:

- ✓ Identify attachment
- ✓ Show approximate weight of forklift/attachment combination
- ✓ Show the capacity of forklift/attachment combination at maximum elevation

Use only manufacturer-approved attachments and ensure that they are properly secured to the forks or carriage. Even an approved attachment can cause harm if not properly secured. If a forklift is equipped with an attachment other than a factory-installed attachment, it must be marked to identify the attachment and show the approximate weight of the forklift/attachment combination and the capacity of the forklift/attachment combination at maximum elevation.

Slide 105 - Tow Attachments

Tow Attachments

Scene 4 Attachments



Hitch-type attachment:

- ✓ Used to move small trailers and generators
- ✓ Requires driver to drive in reverse

A commonly used attachment in our industry is the hitch-type attachment used to move small trailers and generators into place. These towing attachments require the driver to drive in reverse, looking in the direction of travel.

Slide 106 - Elevating Personnel 1

Scene 4 Attachments

Elevating Personnel

A diagram showing a personnel platform, which is a metal cage-like structure with a floor and a backrest, attached to the top of a forklift's mast. The platform is shown in a raised position.

Use an approved personnel platform if:

- ✓ A scissor lift or boom lift is not available
- ✓ The operator's manual does not prohibit it
- ✓ The operator is familiar with safety instructions and is properly trained
- ✓ It is securely attached

The operator's first priority is the safety of the worker being lifted.

A personnel platform approved by the manufacturer can be used to lift workers to work positions if there is no other practical option available, such as a scissor lift or boom lift, the operator's manual does not prohibit it, the operator is familiar with safety instructions and is properly trained in its use, and it is securely attached. When elevating workers, the forklift operator's first priority is the safety of the worker being lifted.

Slide 107 - Elevating Personnel 2

Scene 4 Attachments

Elevating Personnel

A diagram showing a standard wooden pallet. A large red circle with a diagonal slash through it is superimposed over the pallet, indicating that it is not an approved attachment for elevating personnel.

A pallet is never an approved attachment.


Keep in mind that a pallet is not an approved attachment and should never be used to elevate workers.

Slide 108 - Elevating Personnel 3

Scene 4 Attachments

Elevating Personnel

- ✓ Inspect area for activity that could impact safety.
- ✓ Check that vehicle is on firm, level ground.
- ✓ Check that vertical path is clear.
- ✓ Put in neutral and set parking brake.
- ✓ Keep mast vertical.

An illustration showing a forklift operator seated on the controls, lifting a personnel platform vertically. The platform is positioned next to a building, and the mast is kept vertical. The operator is wearing a hard hat and safety harness. The background is a simple grey ground and a white building with a grey roof.

Inspect the area to ensure there is no moving equipment, personnel, or other activity that could impact the safety of the lifting/lowering procedure.

Check that the vehicle is on firm, level ground and the path of the personnel platform is clear of vertical hazards, such as roof eaves and power lines.

Put the directional lever in neutral, and set the parking brake.

Keep the mast in a vertical position. Never tilt the mast when elevating workers.


Lift and lower smoothly and with caution.

Maintain visual contact with the platform when raising or lowering it.

Stay seated at the controls while anyone is on the elevated platform.

And never move the forklift with anyone on the platform, except for minor movements required for final positioning.

Slide 109 - Attachment Modifications

Scene 4 Attachments

Attachment Modifications

Changes that affect capacity and safe handling are prohibited unless:

- ✓ Approved in writing by the manufacturer, or
- ✓ Designed, manufactured, and installed in accordance with recognized engineering and manufacturing principles

Any capacity, operation, and maintenance instruction plates must be changed accordingly.

Do not use a modified attachment if there is no information about the change.

Modifications and structural changes to attachments that affect capacity and safe handling are prohibited unless approved in writing by the manufacturer, or designed, manufactured, and installed in accordance with recognized engineering and manufacturing principles. Any capacity, operation, and maintenance instruction plates must be changed accordingly. If you see that an attachment has been modified but there is no other information about this change, do not use it.

That concludes our discussion on forklift attachments. Let's apply your knowledge with a couple of review questions.

Slide 110 - Knowledge Check 9

Scene 4 Attachments

Knowledge Check 9

When not handling a load, a forklift with an attachment must be operated as partially loaded.

- ☐ True
- ☐ False



Submit

An illustration of a yellow forklift with a black pallet fork attachment. A silhouette of a person is shown operating the forklift. The forklift is facing right, and the attachment is in the down position.

Slide 111 - Knowledge Check 10

Scene 4 Attachments

Knowledge Check 10

A worker can be lifted on a pallet if there is no other option.

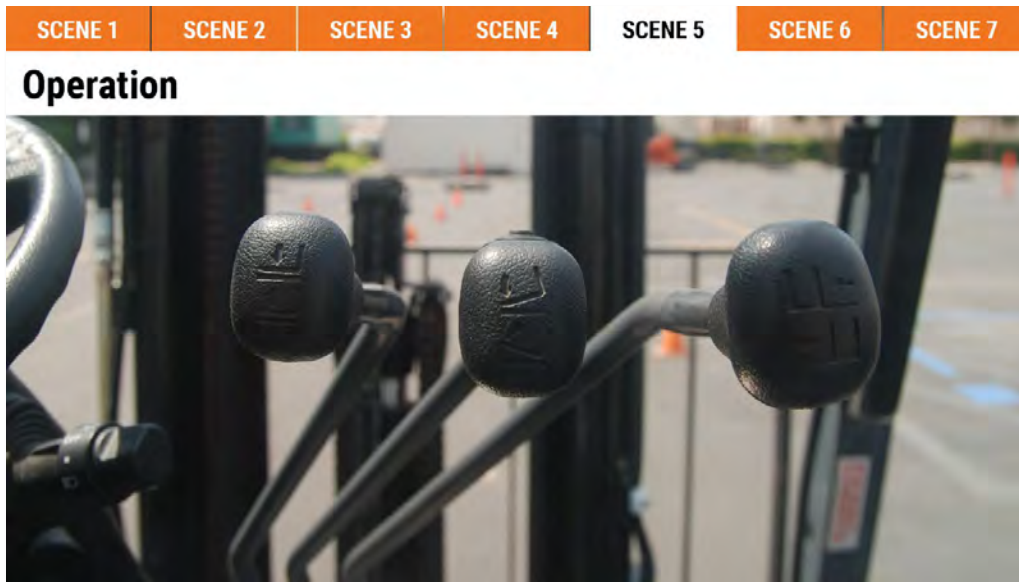
- ☐ True
- ☐ False



Submit

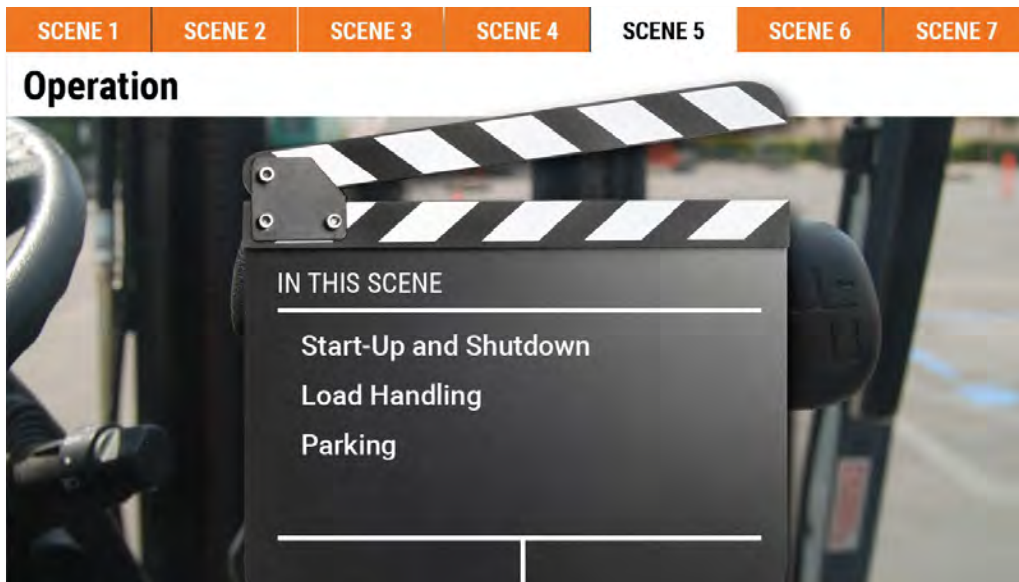
An illustration of a standard wooden pallet, showing its top surface with horizontal and vertical slats. The pallet is shown from a slightly elevated perspective.

Slide 112 - Operation



Scene Five, Operation.

Slide 113 - In This Scene



This scene reviews common forklift operating procedures: start-up and shutdown, load handling, and parking. You will be performing most of these procedures during the hands-on portion of this course.

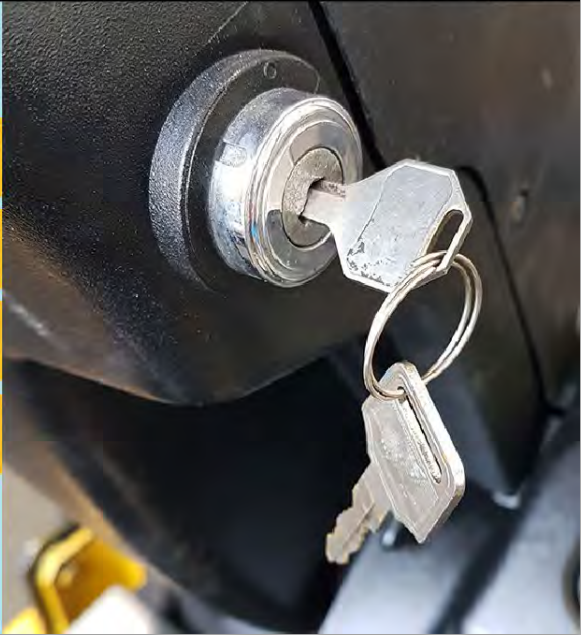
Note that the following information does not take the place of thorough review and understanding of the operator's manual, specific processes required at your work site, or employer instructions.

Slide 114 - Forklift Start-Up

Scene 5 Operation

Procedure | Forklift Start-Up

1. Mount using three points of contact.
2. Buckle your seat belt.
3. Familiarize yourself with the controls.
4. Start the engine.



Let's begin with vehicle start-up.

Mount the forklift using three points of contact.

Buckle your seat belt.

Familiarize yourself with the controls and indicators.

And, when you're ready, start the engine.

Slide 115 - Lifting a Load



The following load-handling procedures are for standard forks carrying a load on a standard pallet. You may need to make adjustments if you are carrying a non-standard load or using an attachment.

Approach the load slowly and carefully.

Square the forklift to the load.

Level the mast, if necessary, so that there is no tilt.

Adjust the width of the forks so that they are as wide as possible for the width of the load.

Position the forks to the necessary height and drive the forks fully under the load.

Be careful that the forks do not hit anything on the other side of the load like a wall or another load. Then, lift the load to a height for safe travel, and tilt it back for added stability.

Slide 116 - Placing a Load



Now, we'll place the load.

Square the forklift to the placement area.

Level the mast so that there is no tilt.

Position the load to the necessary height, and drive forward slowly and carefully.

Lower the load until it is securely placed. Continue to lower the forks until the load is disengaged.

Back away slowly, looking in the direction of travel, and be careful that the forks do not hit the load or pallet.

Adjust the fork height for safe travel.

Slide 117 - Parking an Attended Forklift

Scene 5 Operation

Procedure | **Parking an Attended Forklift**


A vehicle is **attended** when:

Lower forks or other attachment.

Put in neutral.

Set parking brake.

Within 25 ft. AND in view



Ok, let's look at a couple of parking procedures.


When parking a forklift that will be attended, fully lower the forks or other attachment, put the vehicle in neutral, and set the parking brake. A vehicle is **attended** when the operator is within 25 feet of the forklift, and it remains in view.

Slide 118 - Parking an Unattended Forklift 1

Scene 5 Operation

Procedure | **Parking an Unattended Forklift**

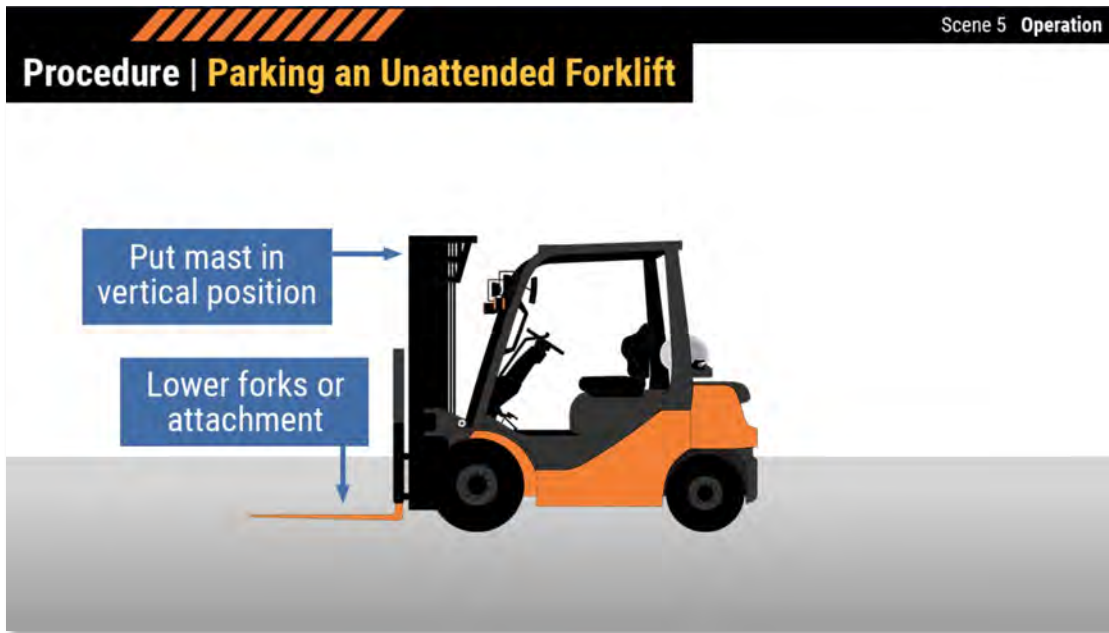
A vehicle is **unattended** when:



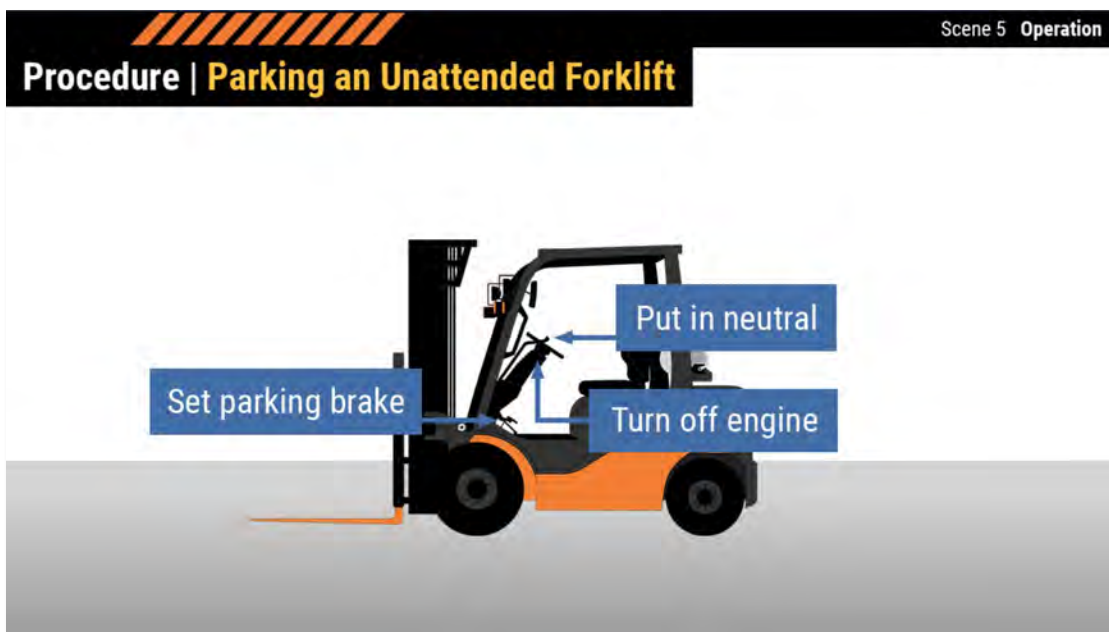
Over 25 ft. OR not in view

A vehicle is **unattended** when the operator is over 25 feet from the forklift, or it is not in their view.

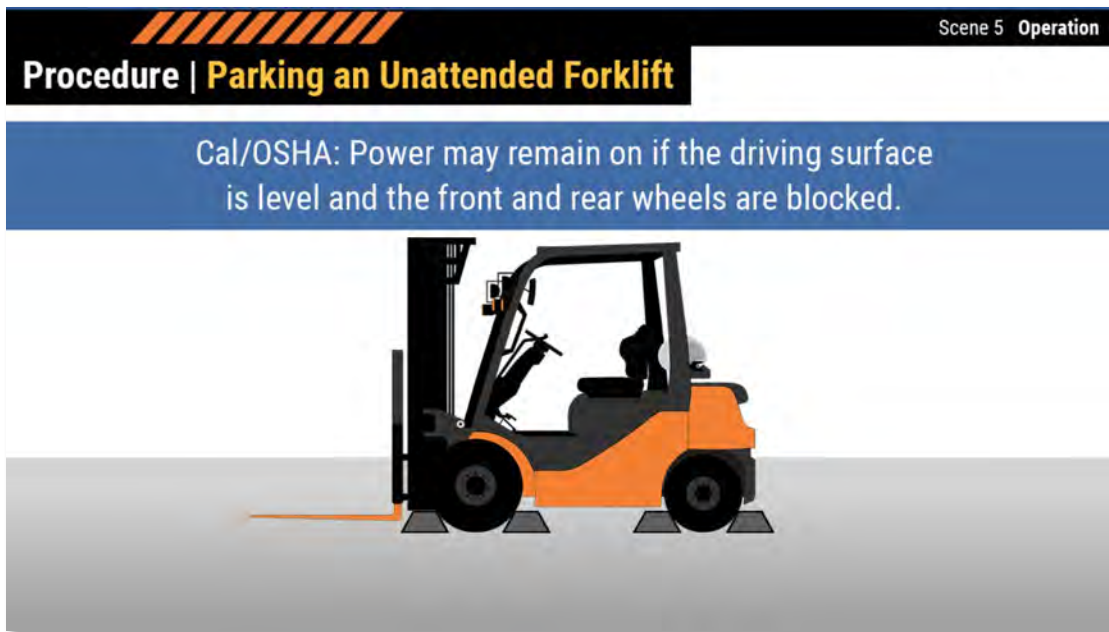
Slide 119 - Parking an Unattended Forklift 2



When parking a vehicle that will be unattended, put the mast in a vertical position. Lower the forks or attachment to the ground.



Put the vehicle in neutral, set the parking brake, and turn off the engine.



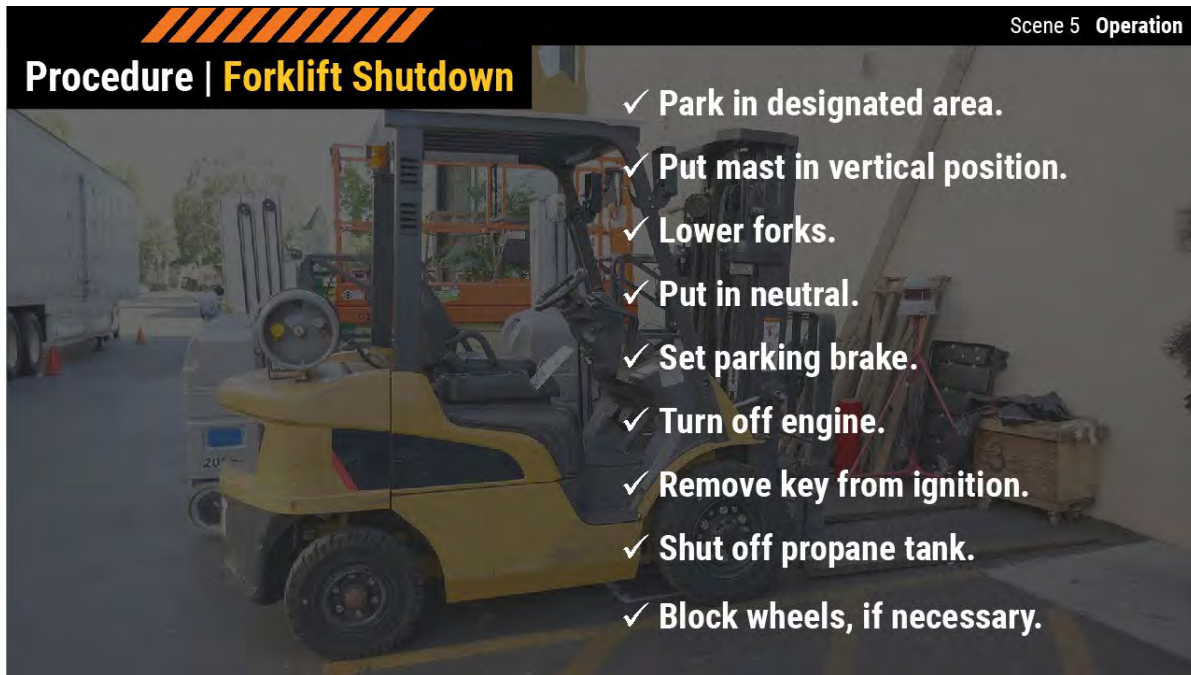
However, if you're working in California, Cal/OSHA allows the power to remain on if the driving surface is level and the front and rear wheels are blocked.



If the vehicle is left on an incline, block the wheels.

And if you've turned the engine off, remember to remove the key from the ignition and take it with you.

Slide 120 - Forklift Shutdown



The vehicle shutdown procedure is similar to parking an unattended forklift.

When parking a forklift at the end of your shift, do so in a designated parking area.

You'll put the mast in a vertical position, lower the forks or attachment to the ground, put the vehicle in neutral, and set the parking brake just as you would when parking a forklift that will be unattended.

Then, turn off the engine and remove the key from the ignition.

Shut off the propane tank if operating a forklift that has one.

And, block the wheels for added safety, if necessary.

To finish up this scene, try a couple of review questions.

Slide 121 - Knowledge Check 11

Scene 5 Operation

Knowledge Check 11

What is the first thing you should do after sitting down in the driver's seat of a forklift?

- ☐ A. Start the engine
- ☐ B. Buckle the seat belt
- ☐ C. Familiarize yourself with the controls

Submit

Slide 122 - Knowledge Check 12

Scene 5 Operation

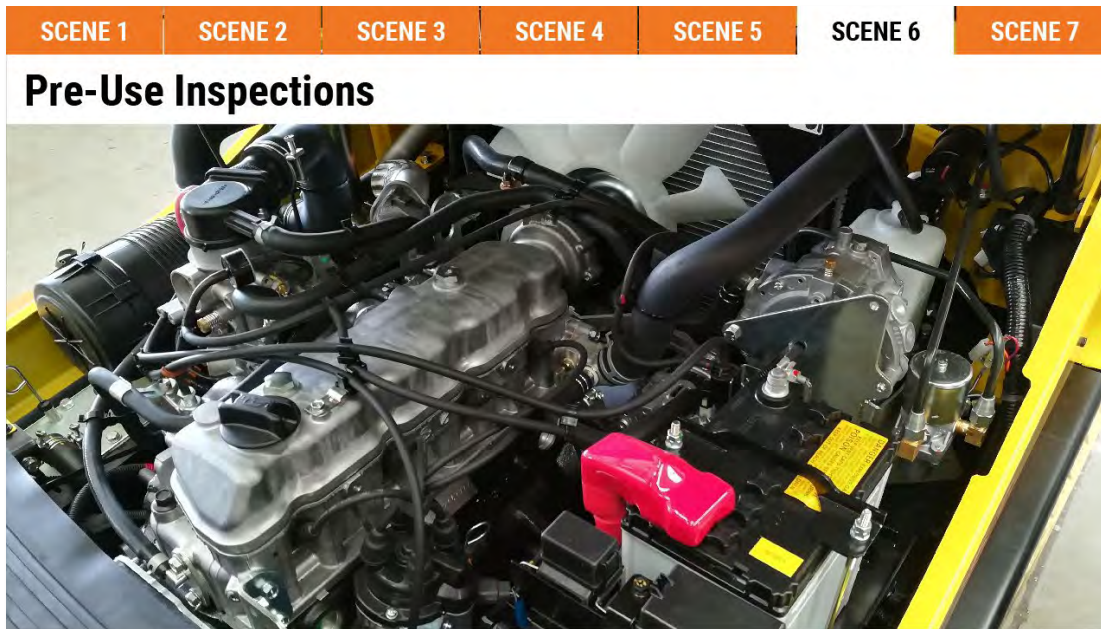
Knowledge Check 12

A forklift is considered unattended if it is out of view of the operator.

- ☐ True
- ☐ False

Submit

Slide 123 - Pre-Use Inspections



Scene Six, Pre-Use Inspections.

Slide 124 - In This Scene



In this scene, we'll review the basics of the pre-use inspections and function test that must be performed at the beginning of a work shift or when there is a change in operators.

Slide 125 - Types of Inspections

Scene 6 Pre-Use Inspections

Types of Inspections



Never operate a defective machine.

Work Zone Inspection	Walk-Around Inspection	Function Test
Identifies hazards in the immediate work area.	A visual assessment of the physical condition of the forklift.	A check of the forklift's general operation.

A **work zone inspection** identifies hazards in the immediate work area to help determine if the area should be avoided or if other precautions should be taken.

A **walk-around inspection** is a visual assessment of the physical condition of the forklift.

And, a **function test** checks that all controls and components are working properly.

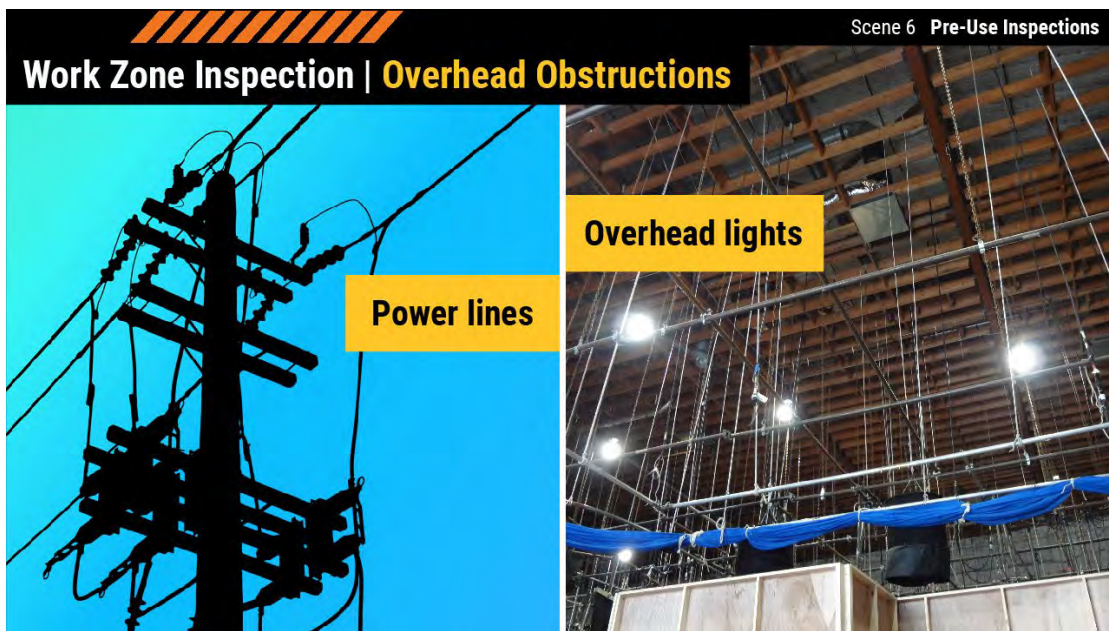
If a defect is noticed during an inspection or while driving, park the vehicle, report the issue, and get assistance. Never operate a defective machine.

Slide 126 - Traffic



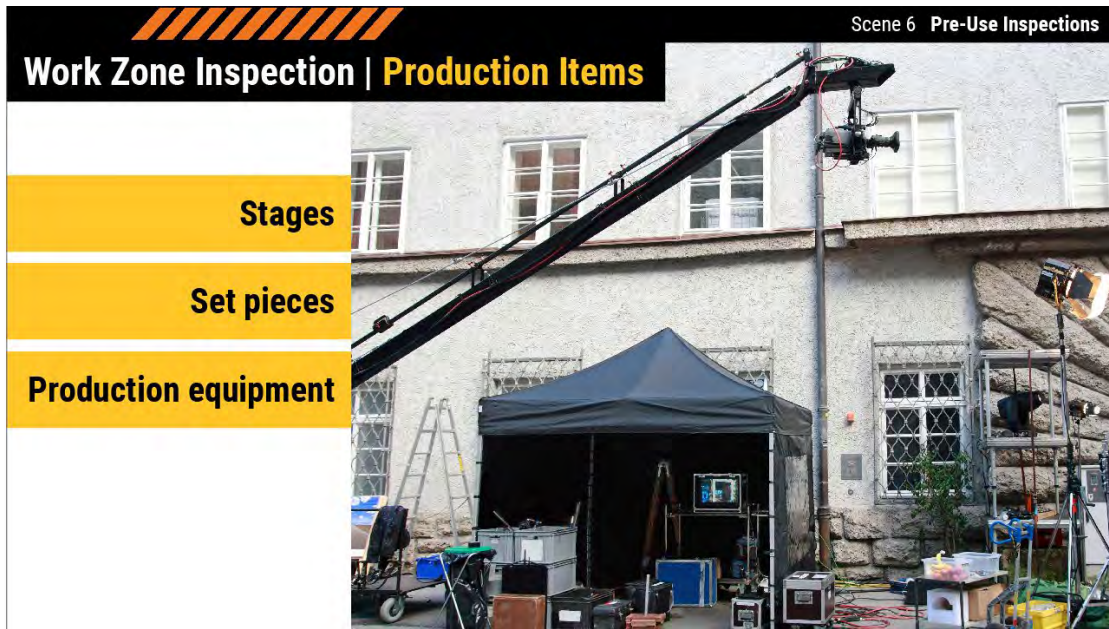
When inspecting the work zone, take note of pedestrian and vehicle traffic;

Slide 127 - Overhead Obstructions



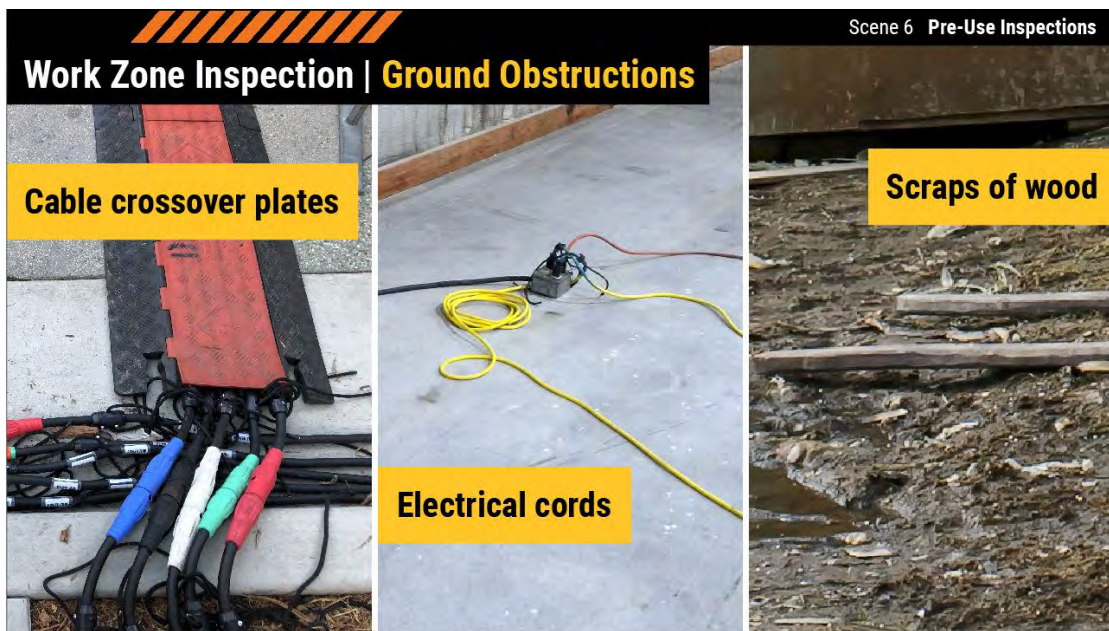
power lines and other overhead obstructions such as lights, sprinklers, pipes, air ducts, and door frames;

Slide 128 - Production Items



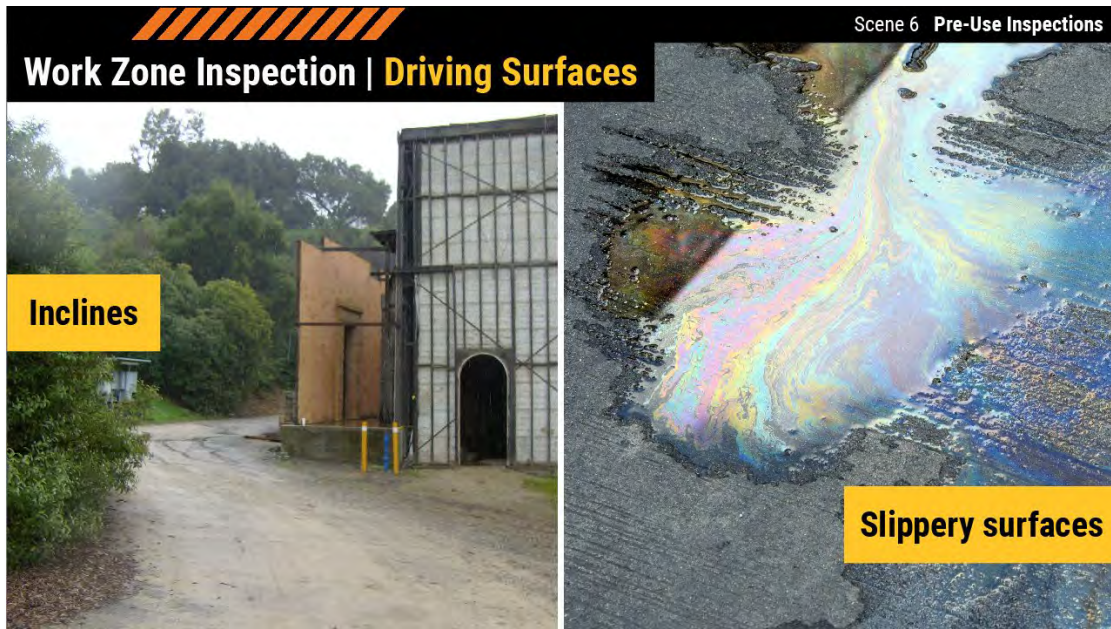
and stages, set pieces, and production equipment.

Slide 129 - Ground Obstructions



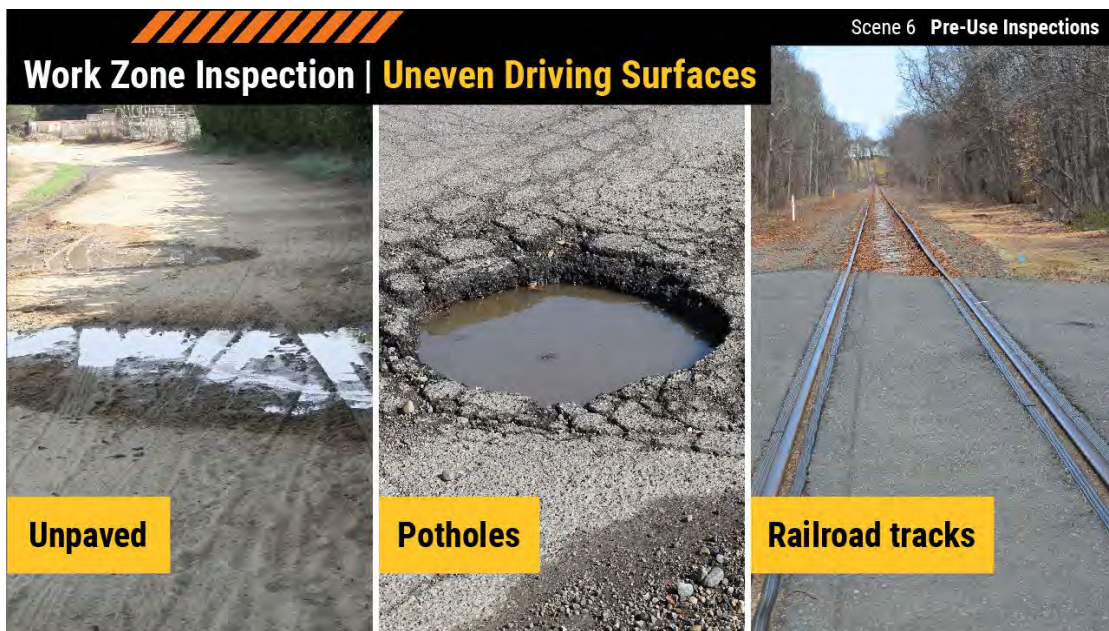
Look for obstructions and debris on the ground like crossover plates, electrical cords, and even scraps of wood.

Slide 130 - Driving Surfaces



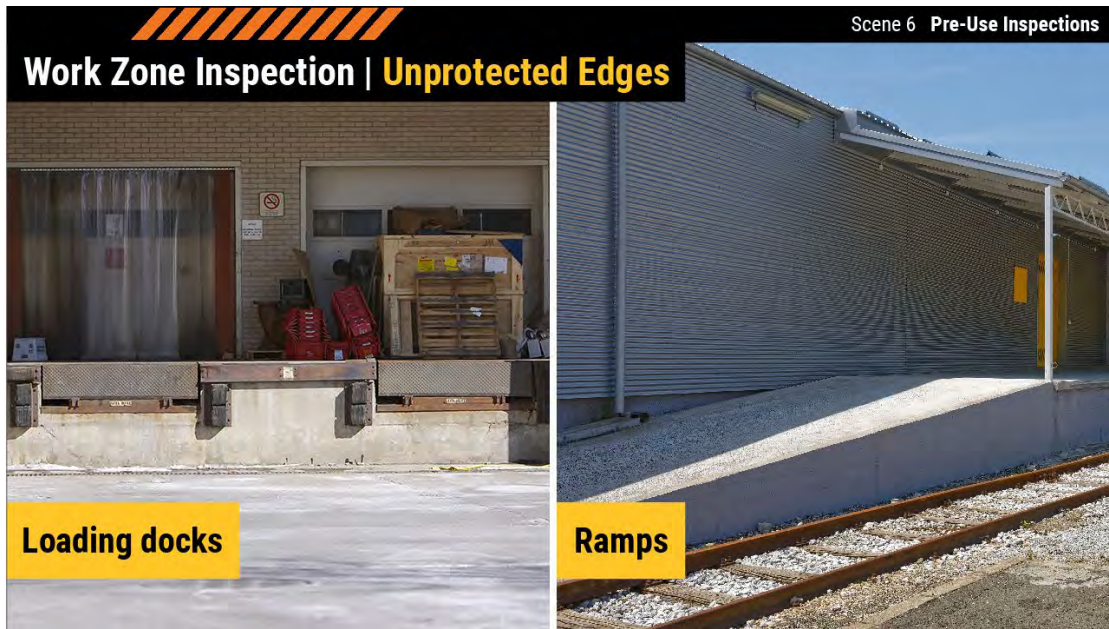
Be aware of inclines and slippery driving surfaces;

Slide 131 - Uneven Driving Surfaces



uneven roads that are unpaved, have potholes, or are bisected by railroad tracks;

Slide 132 - Unprotected Edges



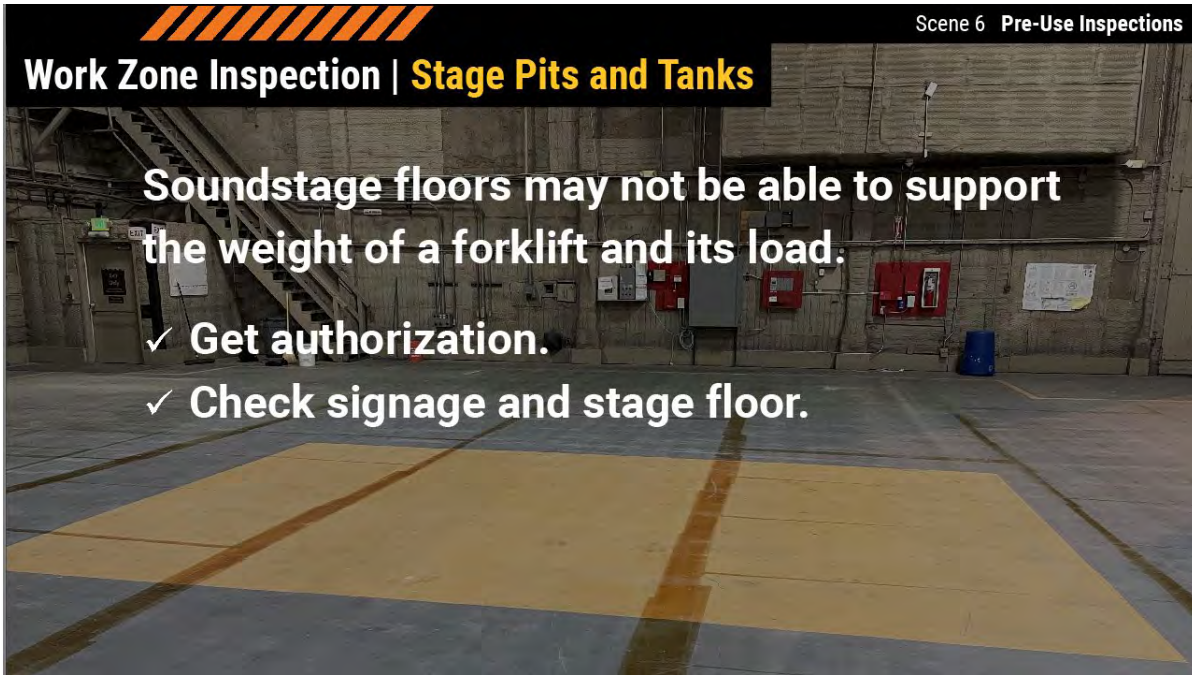
and loading docks and ramps with unprotected edges.

Slide 133 - Non-Load-Bearing Surfaces




Identify potentially non-load-bearing surfaces such as soundstage floors, filming location sites, and spots with unstable ground. Let's look at these situations in more detail.

Slide 134 - Stage Pits and Tanks



Many soundstages have pits and tanks located under the flooring that may not be able to support the weight of a forklift and its load. Contact Backlot Operations or Studio Safety to get authorization to take a forklift onto a soundstage. Check posted signage and the stage floor itself for weight limits and markings indicating pits and tanks.

Slide 135 - On Location



Scene 6 Pre-Use Inspections

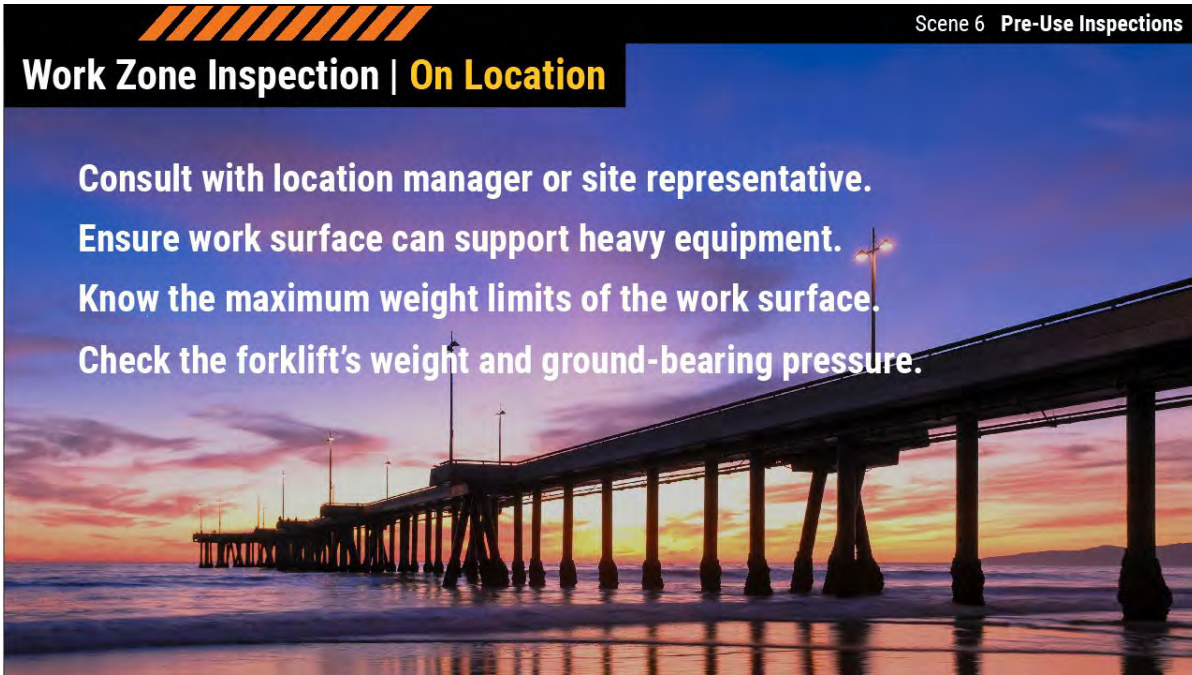
Work Zone Inspection | On Location

Consult with location manager or site representative.

Ensure work surface can support heavy equipment.

Know the maximum weight limits of the work surface.

Check the forklift's weight and ground-bearing pressure.



When on location, consult with the location manager or a site representative to ensure that the work surface can support the forklift and its load. Know the maximum weight limits of the work surface, and check the forklift's weight and ground-bearing pressure in the operator's manual.

Slide 136 - Unstable Ground



When working on location or on a backlot, there may be unstable ground such as mud, grass, gravel, and sand. These types of surfaces can shift or sink under the weight of the forklift, leading to falling loads or tip-overs.



Do not drive onto surfaces that are soft or pliable.

Slide 137 - Enclosed Spaces

Scene 6 Pre-Use Inspections

Work Zone Inspection | Enclosed Spaces

Determine if there are enclosed spaces that could enable asphyxia.



Check studio policy before bringing an internal combustion engine forklift onto a stage.

A few more items for your work zone inspection.

Determine if the work zone has enclosed spaces that could contain or enable a hazardous atmosphere. This could be a stage with all the doors and windows closed, or even a trailer where forklift exhaust can get trapped.

To avoid asphyxiation, do not operate in a space where there is inadequate ventilation. If available, use an electric forklift in these environments.

Be sure to check studio policy before bringing a forklift with an internal combustion engine indoors.

Slide 138 - Changing Light Conditions



Next, are there any spots where you are driving from outside to inside or vice versa? If so, your eyes will need time to adjust to the changing light conditions.

Slide 139 - Poor Weather




Lastly, is there a possibility of poor weather? Operating a forklift when it's raining, windy, or there's a chance of lightning can put you or others at risk of being injured by collisions, tip-overs, falling loads, shock, or electrocution.

Slide 140 - Walk-Around Inspection 1

Scene 6 Pre-Use Inspections

Walk-Around Inspection




- ✓ Vehicle is powered off.
- ✓ Operator's manual is with the vehicle.
- ✓ Data plate and decals are in place and legible.
- ✓ Data plate information matches the vehicle and attachment.

Now it's time to check the physical condition of the forklift with the walk-around inspection. Before you begin, make sure that the vehicle is powered off.

Start by confirming that the operator's manual is on board; the data plate and decals are in place and legible; and the information on the data plate matches the vehicle and forks or other attachment. When doing the actual inspection, follow the checklist in that vehicle's operator's manual.

[Click here to see a sample checklist.](#)

Slide 141 - Walk-Around Inspection 2



Scene 6 Pre-Use Inspections


Walk-Around Inspection

Overall condition:

- ✓ Tight connections
- ✓ Fuel and fluid levels
- ✓ Tire inflation
- ✓ Secured, approved attachment

The walk-around inspection requires you to verify the overall good condition of the vehicle. Check for tight connections, proper fuel and fluid levels, proper tire inflation, and that the forks or the approved attachment is properly secured.

Slide 142 - Walk-Around Inspection 3



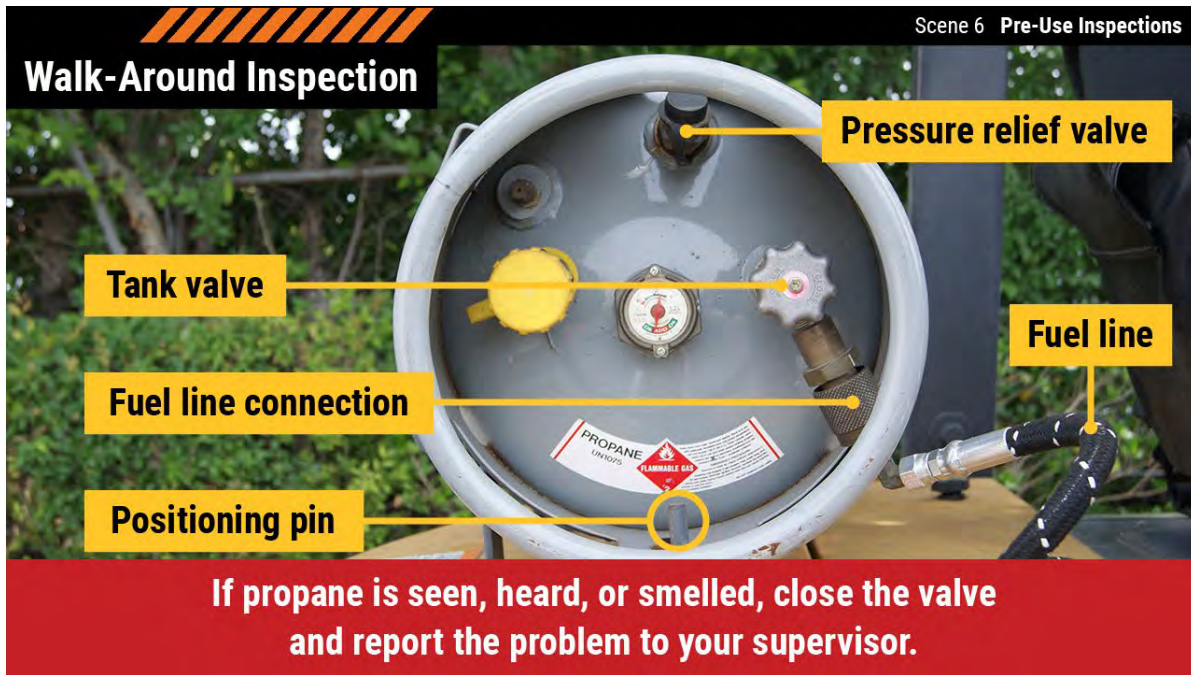
Scene 6 Pre-Use Inspections

Walk-Around Inspection

- ✓ Fluid leaks
- ✓ Cracked, frayed, or broken parts
- ✓ Cuts/gouges in tires
- ✓ Missing or loose parts
- ✓ Debris in moving parts
- ✓ Damaged attachments
- ✓ Unauthorized modifications

Look for signs of damage like fluid leaks; cracked, frayed, or broken parts; and cuts or gouges in tires. And, ensure there are no missing or loose parts, debris in moving parts, damaged attachments, or unauthorized attachment modifications.

Slide 143 - Walk-Around Inspection 4

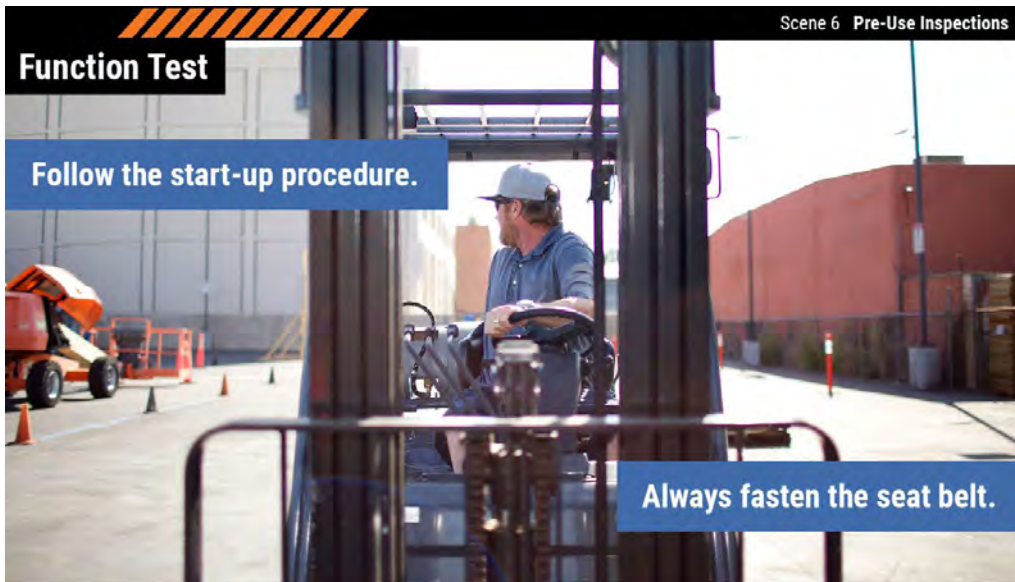


When operating a forklift that runs on liquefied petroleum gas, also known as LPG or propane, check that the propane tank and fuel line are in good condition.

Check that the tank is properly positioned, with the pressure relief valve at the top of the tank and the positioning pin properly engaged.

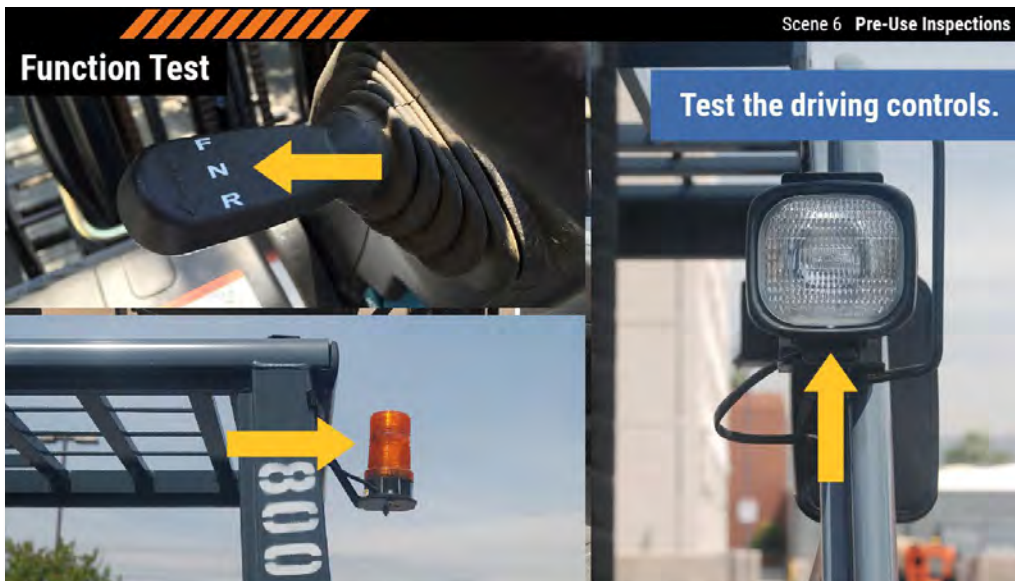
Confirm that the fuel line is securely connected to the tank, and that the tank valve is open no more than one and a half turns to allow adequate propane to the engine and quick closure if a problem arises. If propane is seen, heard, or smelled, close the valve immediately and report the problem to your supervisor.

Slide 144 - Function Test 1



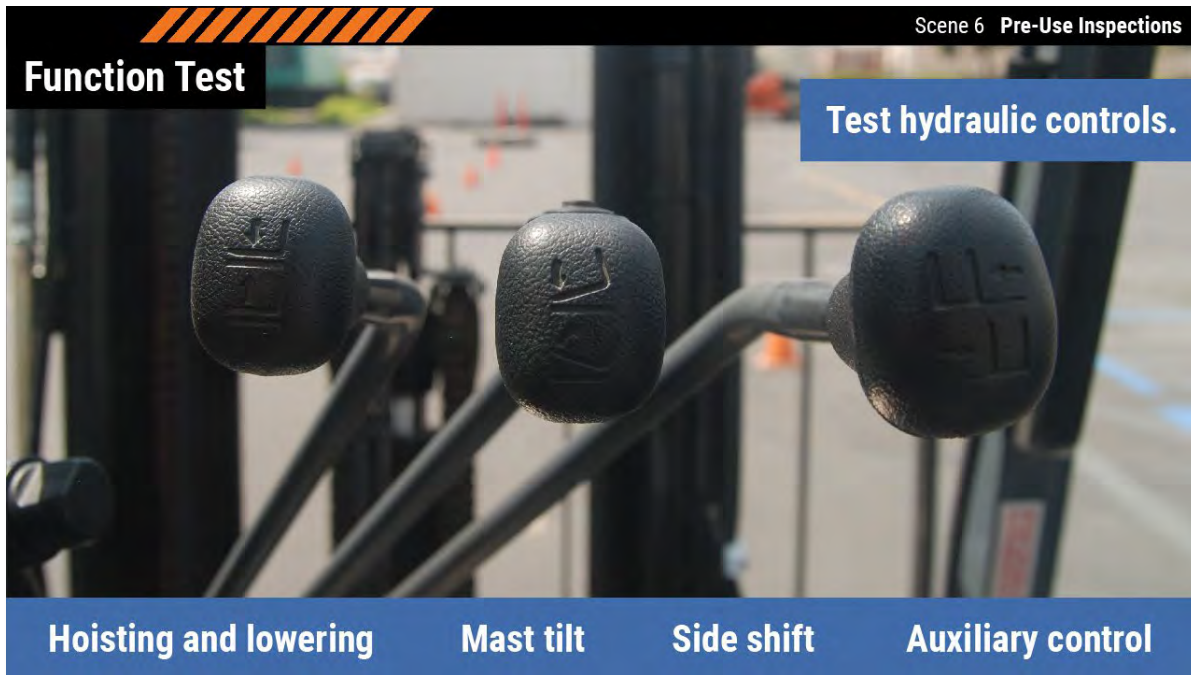
After the walk-around inspection is finished, you'll move on to the function test. First, follow the vehicle start-up procedure. Don't forget to fasten the seat belt.

Slide 145 - Function Test 2



Then, test the driving controls: the steering and horn, the brakes and the inch control (if the vehicle is equipped with it), forward and reverse directional control, the lights, and the back-up alarm.

Slide 146 - Function Test 3



Test the hydraulic levers. You'll hoist and lower the forks, tilt the mast, shift the forks from side to side, and use the auxiliary control if the forks or attachment has this capability.

That brings us to the end of this scene. Try a couple of knowledge checks.

Slide 147 - Knowledge Check 13

Scene 6 Pre-Use Inspections

Knowledge Check 13

Checking the route for uneven or sloped driving surfaces is part of which procedure?

- ☐ A. Work zone inspection
- ☐ B. Walk-around inspection
- ☐ C. Function test

Submit

Slide 148 - Knowledge Check 14

Scene 6 Pre-Use Inspections

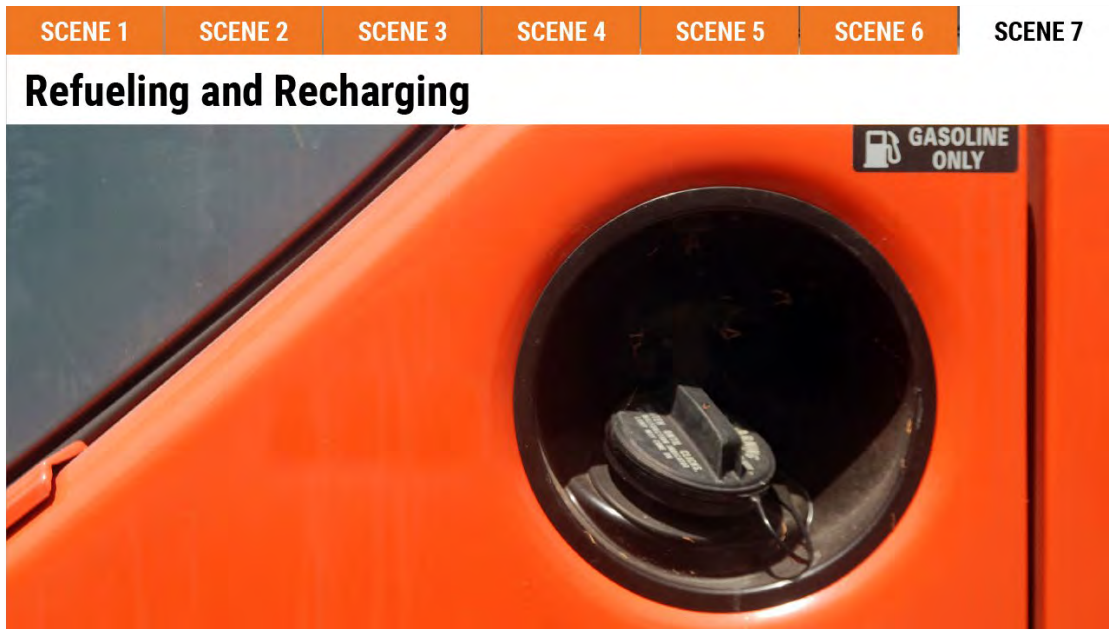
Knowledge Check 14

Fastening the seat belt is done during which procedure?

- ☐ A. Work zone inspection
- ☐ B. Walk-around inspection
- ☐ C. Function test

Submit

Slide 149 - Refueling and Recharging



Scene Seven, Refueling and Recharging.

Slide 150 - In This Scene



For our final scene, we'll be discussing how to avoid hazards while refueling a forklift, changing a propane tank, or changing and charging batteries.

Slide 151 - Power Sources

Scene 7 Refueling and Recharging

Power Sources

Internal Combustion



Electric



Forklifts are powered by internal combustion or electric engines.

Slide 152 - Employer Policy 1

Scene 7 Refueling and Recharging

Employer Policy



Employees may be allowed to change propane tanks and refuel with gasoline or diesel.

Depending on employer policy, you may be allowed to change propane tanks and refuel forklifts that use gasoline or diesel fuel.

Scene 7 Refueling and Recharging

Employer Policy

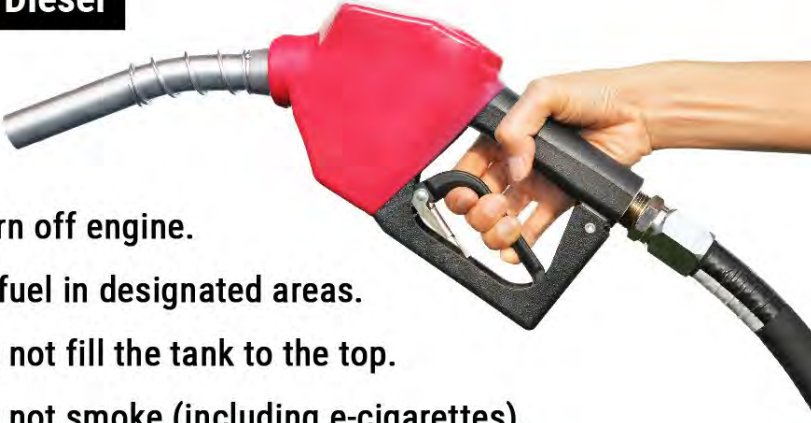



Only **qualified** and **authorized** persons may refill propane tanks and change and recharge batteries.

However, only qualified and authorized persons may refill propane tanks and change and recharge batteries.

Contact your safety representative for specifics on the procedures you are allowed to perform.

Slide 153 - Refueling with Gas or Diesel



Refueling with Gas or Diesel

Scene 7 Refueling and Recharging

- Turn off engine.
- Refuel in designated areas.
- Do not fill the tank to the top.
- Do not smoke (including e-cigarettes).

Recommended practice: Do not get low on or run out of fuel.

When refueling forklifts that are powered by gasoline or diesel fuel, explosive vapors are the main hazard. Stay safe by following these precautions.

Turn off the engine.



Refuel in designated locations with proper ventilation and away from heat sources and people.

Do not fill the tank to the top, as it may overflow if the fuel expands from heat.

And, do not smoke, which includes e-cigarettes.


To keep the vehicle in good working order, do not allow the forklift to become low on fuel or run out of fuel.

Slide 154 - Changing a Propane Tank 1



Changing a Propane Tank

Scene 7 Refueling and Recharging



Wear the required PPE.

**Change in well-ventilated area,
away from sources of ignition.**

Do not drop, drag, or roll containers.

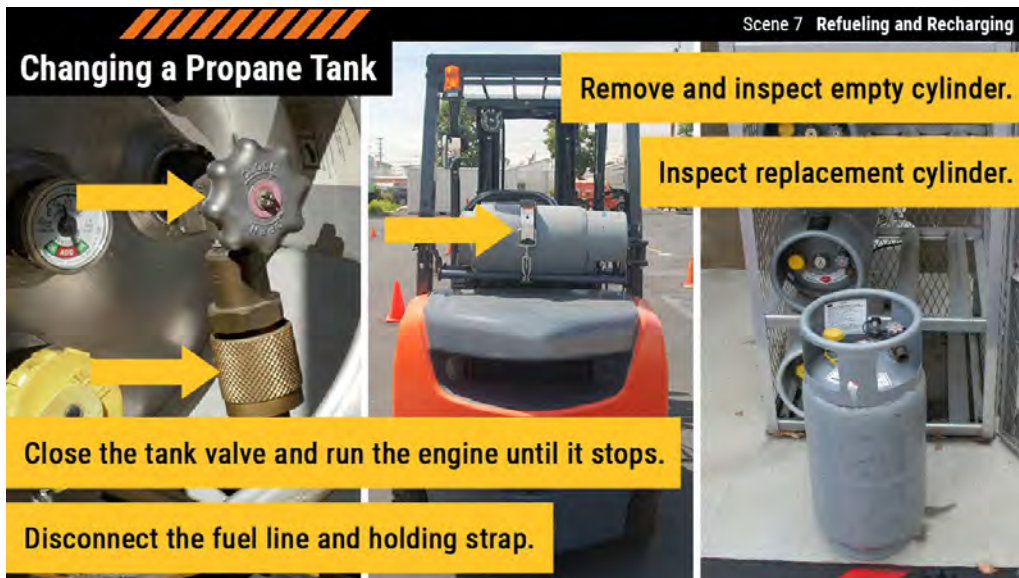
Propane vapor is heavy and flammable. If not adequately dissipated, it can collect in low-lying areas, including pockets and pant cuffs, and ignite if exposed to a heat source. Liquid propane is extremely cold and may cause freeze burns if it comes in contact with your skin.

When changing a propane tank, wear the required PPE, which could include eye protection and insulated, loose-fitting gloves made of leather or neoprene.

Change cylinders in a well-ventilated area, away from sources of ignition.

Do not drop, drag, or roll containers.

Slide 155 - Changing a Propane Tank 2



Close the tank valve and run the engine until it stops to ensure that the fuel line is empty. Carefully disconnect the fuel line and holding strap. Remove the empty cylinder and inspect it for damage. Then, inspect the replacement cylinder.

Remove any damaged cylinder from service.

Slide 156 - Changing a Propane Tank 3



Position the replacement cylinder so that the pressure relief valve is at the top of the tank and the positioning pin is in the positioning hole. Open the valve no more than one and a half turns to allow adequate propane to the engine and quick closure if a problem arises.

Slide 157 - Propane Leaks

Scene 7 Refueling and Recharging


Propane Leaks

If propane is seen, heard, or smelled:

- ✓ Close valve
- ✓ Apply soapy water
- ✓ Turn valve back on
- ✓ Look for bubbles

If leak cannot be stopped:

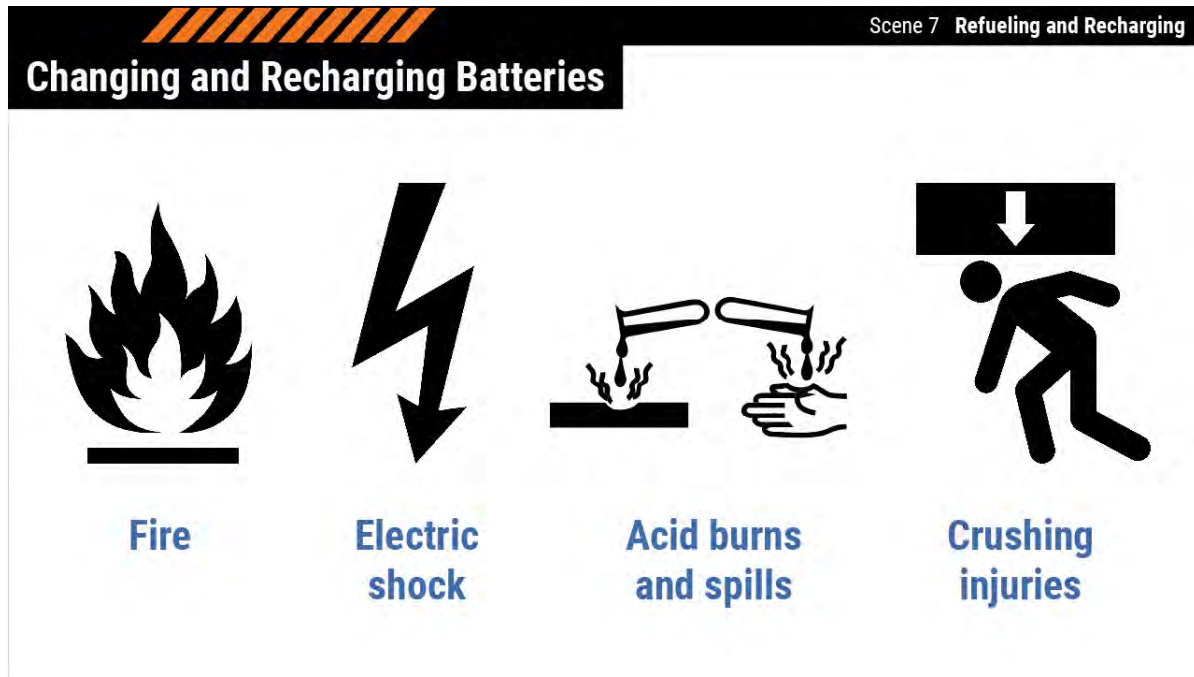
- ✓ Do not use vehicle
- ✓ Close valve
- ✓ Report problem to supervisor



If, at any time, propane is seen, heard, or smelled, close the valve immediately. This is an indication that the tank, a connection point, or the fuel line is leaking.


To check for leaks, apply soapy water to the tank valve, the fuel line, and the fuel line's connection points. Turn the valve back on, and look for bubbles. If the leak cannot be stopped, do not use the vehicle. Close the valve, and report the problem to your supervisor.

Slide 158 - Changing and Recharging Batteries 1



Potential hazards when changing and recharging batteries include fire, electric shock, acid burns and spills, and crushing injuries.

Slide 159 - Changing and Recharging Batteries 2



Scene 7 Refueling and Recharging

Changing and Recharging Batteries

- Recharge in designated, safe locations.
- Take precautions to prevent flames, sparks, or electric arcs.
- Keep tools and other metallic objects away from uncovered batteries.
- Know where emergency equipment and supplies are located.

If you have been trained and authorized by your employer to perform these tasks, follow these basic safety practices.

Recharge only in designated, safe locations.

Take precautions to prevent flames, sparks, or electric arcs.

Keep tools and other metallic objects away from uncovered batteries.

And, know where emergency equipment and supplies—like the eye-washing station and neutralizing solutions—are located.

We're at our last couple of knowledge checks. Let's see how you do.

Slide 160 - Knowledge Check 15

Scene 7 Refueling and Recharging

Knowledge Check 15

Which hazard is associated with refueling forklifts that run on gasoline or diesel fuel?

- ☐ A. Electric shock
- ☐ B. Explosive vapors
- ☐ C. Freeze burn
- ☐ D. Crushing injury

Submit

Slide 161 - Knowledge Check 16

Scene 7 Refueling and Recharging

Knowledge Check 16

Which propane tank part is identified in this photograph?

- ☐ A. Pressure relief valve
- ☐ B. Positioning pin
- ☐ C. Tank valve
- ☐ D. Fuel line



Submit

Slide 162 - In Closing

In Closing



Okay, we've reached the end of the presentation. Before you are directed to the test, let's go over some important takeaways.

Slide 163 - Important Takeaways

Important Takeaways

Operators

Familiarize yourself with the operator's manual.
Drive and handle loads with caution to avoid hazards.
Assess forklift capacity for each new load and attachment.
Use only approved attachments.

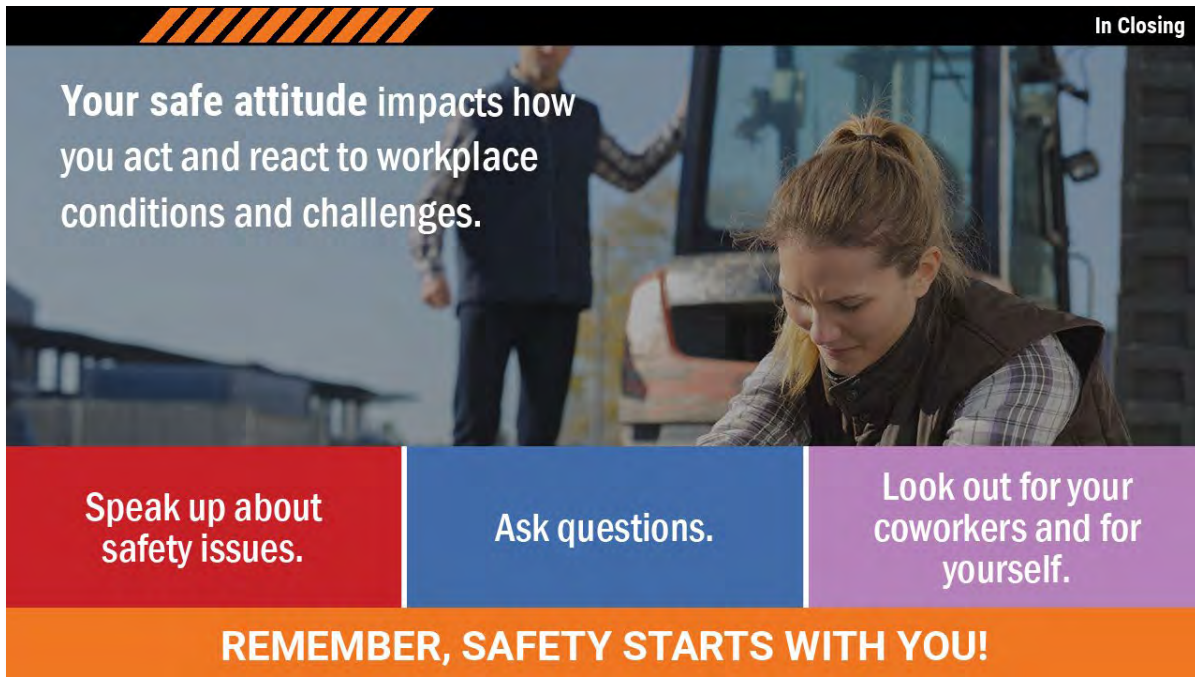
Workers

Pay attention to the forklift activity around you.
Keep a safe distance from a forklift and its load.

If you are an operator, familiarize yourself with the operator's manual before operating any forklift. Drive and handle loads with caution to avoid common hazards like collisions, tip-overs, and falling loads. Assess forklift capacity for each new load and attachment. And, use only approved attachments.

If you are a worker, pay attention to the forklift activity around you and keep a safe distance from a forklift and its load.

Slide 164 - A Safe Attitude

The slide features a background image of a woman in a plaid shirt and safety vest looking down, with a forklift operator visible in the background. The text is overlaid on this image. At the top left, there are five orange diagonal stripes. At the top right, the text 'In Closing' is displayed. The main text reads: 'Your safe attitude impacts how you act and react to workplace conditions and challenges.' Below this, there are three colored boxes: a red box with 'Speak up about safety issues.', a blue box with 'Ask questions.', and a purple box with 'Look out for your coworkers and for yourself.' At the bottom, an orange banner contains the text 'REMEMBER, SAFETY STARTS WITH YOU!' in white capital letters.

In Closing

Your safe attitude impacts how you act and react to workplace conditions and challenges.

Speak up about safety issues.

Ask questions.

Look out for your coworkers and for yourself.

REMEMBER, SAFETY STARTS WITH YOU!

Your safe attitude impacts how you act and react to workplace conditions and challenges.

Speak up about safety issues.

Ask questions.

Look out for your coworkers and for yourself.

Remember, safety starts with you.

Slide 165 - In-Person Training Registration Reminder

In Closing

In-Person Training Registration Reminder

After the test, return to the Registration page to enroll for the In-person training portion.

↓

Self-Paced Online Training	In-person / Live Webinar Training
Must complete In-person / Live Webinar portion by MM/DD/YYYY to receive credit. This date does not replace your training deadline.	<div>Enroll</div>

↑

Complete by the date specified or you will need to take this Self-Paced Online training portion again.

Remember, after you pass the test, return to the Registration page right away to enroll for the In-person training portion. Complete that training by the date specified or you will be required to take this Self-Paced Online training portion again. Your completion deadline does not replace your training deadline.



Industry Safety Resources

Safety Bulletins

Safety bulletins are researched, written, and distributed by the Industry Wide Labor-Management Safety Committee for use by the motion picture and television industry. The Industry Wide Labor-Management Safety Committee is composed of guild, union, and management representatives active in industry safety and health programs.

These safety bulletins are guidelines recommended by the safety committee. They are not binding laws or regulations. State, federal, and/or local regulations, where applicable, override these guidelines. Modifications in these guidelines should be made, as circumstances warrant, to ensure the safety of the cast and crew.

The committee and these safety bulletins are representative of the commitment of both labor and management to safe practices in the motion picture and television industry. The members of the committee and all those who contributed to its work have devoted a great deal of time and effort to these guidelines because of the importance of safety to our industry.

Current safety bulletins are available on the CSATF website:

<https://www.csatf.org/production-affairs-safety/safety-bulletins/>

24-Hour Industry Safety Hotline

The 24-hour industry safety hotline number directs callers to an automated system that will assist them in reaching the desired Studio Safety Hotline.

888-7-SAFELY

A list of the Studio Safety Hotlines can also be found on the CSATF website:

<https://www.csatf.org/production-affairs-safety/studio-safety-hotlines/>

**Safety is
everyone's
responsibility.**