

Forklift Training Group Exercise – Answer Key

- 1. Define the term counterweight and discuss its role in forklift load handling.**

Weight that is part of the basic structure of a truck that is used to offset the load and maximize the resistance to keep the truck from tipping over.

- 2. Discuss forklift longitudinal stability and the importance it has in forklift operation.**

This is the resistance of a truck to overturning forward or rearward

- 3. What is the stability triangle?**

The vehicle wheelbase, track height, and weight distribution of the load, and the location of the counterweights of the vehicle.

- 4. Discuss what is meant by lateral stability.**

It is the line of action: a vertical line that passes through combined center of gravity of the vehicle and the load.

- 5. Define the term dynamic stability.**

This is when the vehicle and load are put into motion; moving, braking, cornering, lifting, tilting, and lowering loads, etc. are important stability considerations.

- 6. Define the term fulcrum. How is the term relevant to forklift operation?**

The fulcrum would be the pivot point pertaining to forklift operations: the axis of rotation of the truck when it tips over.

- 7. What is the difference between track and wheelbase? How could these differences effect forklift operations?**

Track is the distance between wheels on the same axle. Wheelbase is the distance between centers of the front and rear wheels of the forklift.

- 8. How does grade affect forklift operation?**

It can upset the stability triangle. Grade is measured as the number of feet in rise of fall over a hundred foot horizontal distance.