

Welcome to the Hard Hat Training Series!



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Welcome to the Hard Hat Training Series. Today you will learn about the safe operation of powered all terrain cranes. We will strive to provide information that will increase your knowledge and help make you a safer operator.



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All terrain cranes are designed to work in the most demanding conditions, which can make them ideal for off-road construction. They often have six or more large tires that allow them to work off-road and in muddy conditions, as well as run comfortably on paved roads at high speeds.



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This means that, unlike most other cranes, all terrain cranes don't have to be transported via truck or shipped in pieces and assembled at the jobsite. Combined with their ability to pick and carry loads, this makes for a powerful, convenient, and versatile machine.





In this training, we will look at the anatomy and functions of all terrain cranes in general, focusing on components examined during pre-shift inspections.



We will discuss crane operation and stability principles, addressing why you should know your truck's capabilities and work within those limits. We will also teach you about load charts and how to properly utilize them.



We will discuss the safety considerations for operating a crane, including proper setup and rigging principles. We will also go over some of the common crane hand signals that can help you ensure good communication on the job site.



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Electrocution**Outrigger Hazards/Overloading****Two-blocking****Hoisting Personell/
Riding the Load****Obstruction of Vision****Poor Rigging/Signals**

Finally, we will discuss the more common hazards involving all terrain cranes, as well as how to recognize, avoid, or minimize them. We will also present a few case studies to help illustrate these points.

STANDARDS

29 CFR 1926.180 – Crawler, Locomotive,
and Truck Cranes

29 CFR 1926.1400 – Cranes and Derricks

AMSE B30.5 – Mobile and Locomotive Cranes

ASME B30.22 – Articulating Boom Cranes

These are some of the main standards concerning mobile crane safety, including all terrain cranes. Many states or provinces have additional standards, as do some industries. We have provided these as a guide, but it's your responsibility to know all federal and local regulations, as well as company rules, that apply to your jobsite.

Why Training?

No matter the situation, it is common to hear workers and even employers ask, “Where does it state we need to be trained?” Can’t a worker also be deemed “qualified” based on experience? The answer is “no.” Experience helps, yes, but regulations are very clear that employees must be trained (no matter how long they’ve been on the job) and that it is the employer who is responsible for overseeing that safety training in order to confirm that the employees have the understanding, knowledge, and skills needed for safe operations.



Initial training and refresher training, as well as any written and practical evaluations, must be documented and filed. At the very least, in the case of an investigation, you will need proof of proper and consistent training (in the way of training outlines, class lists, training goals, tests, certificates, and so on.) These documents should include the name of the person who taught the class or conducted the evaluation.

Workers are required to receive refresher training when...

- 1 There are changes in their assigned duties.
- 2 There are changes regarding potential exposure to hazards for which the employees have not received training.
- 3 There is any deficiency noted in an employee's work performance that is related to the safety and health of themselves or other workers.
- 4 If an accident or anytime an employee is injured or nearly injured during operations.

NOTE: In some areas, refresher training is required at least every three years (if not sooner).

Training is not just a one-and-done occurrence; it is on-going. In fact, regulations are specific when it comes to “refresher” or “follow up” training. Training should take place whenever there is a demonstrated need for it. We have listed several instances when refresher training would be required. Can you think of any others?



The extent of training will be determined by the employer, but at the very least it should include classroom instruction followed by a written and practical examination that prove continued competency.





By the time you complete this training and the written and practical exams, you will be more familiar with the anatomy and equipment of cranes, you will be better prepared to safely operate your machine, and able to recognize and avoid common hazards associated with its use.



Anatomy & Inspection

SAMPLE



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