

“Concrete Pumping”

The important points for Safety and health

Precautions for preparation work

(1) Necessary qualification for concrete pumping

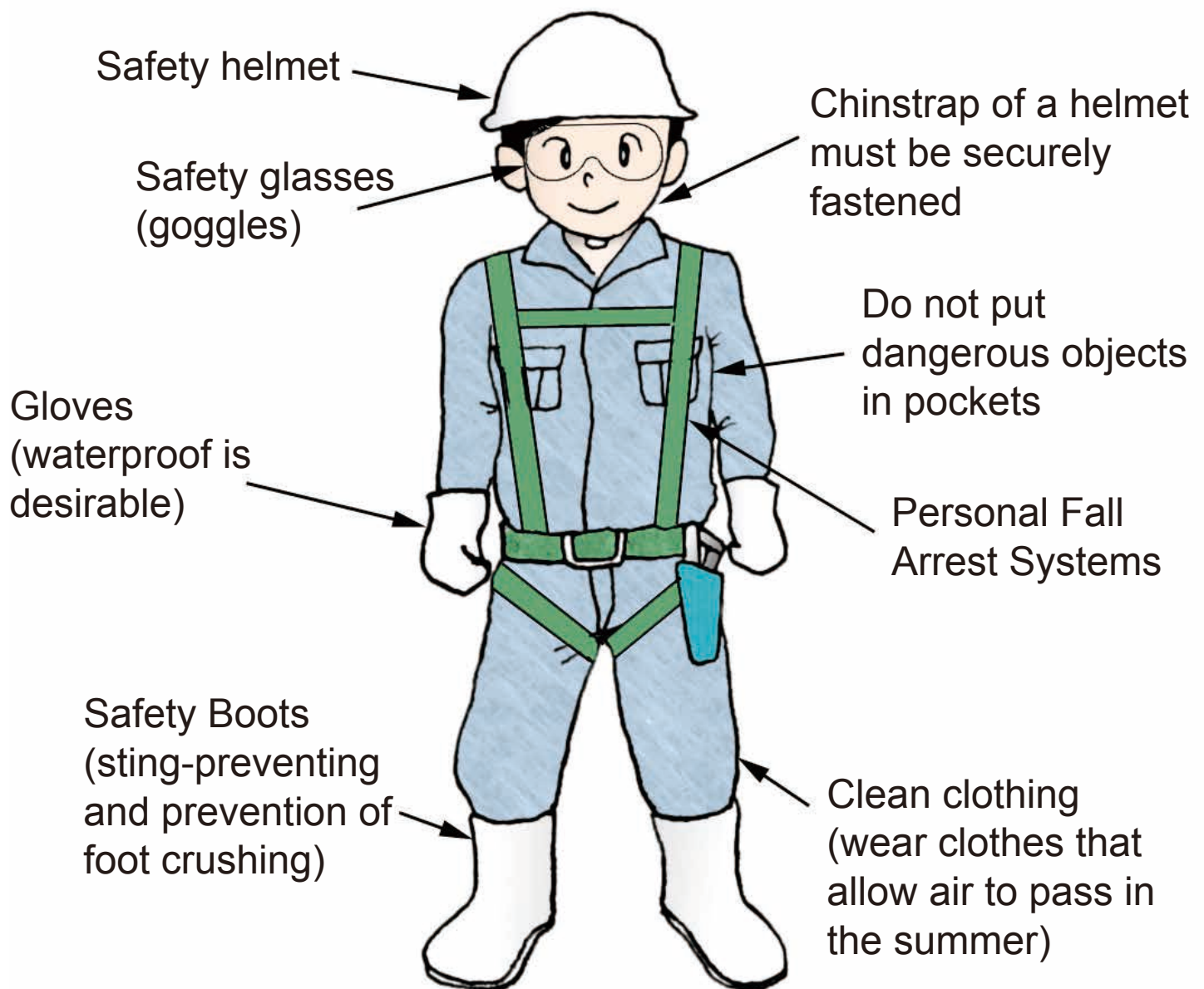
Persons engaged in concrete pumping work must have completed special education that is comply with the Industrial Safety and Health Act.



Example of a concrete pump vehicle special education certificate

(2) Checking of clothes and safety equipment

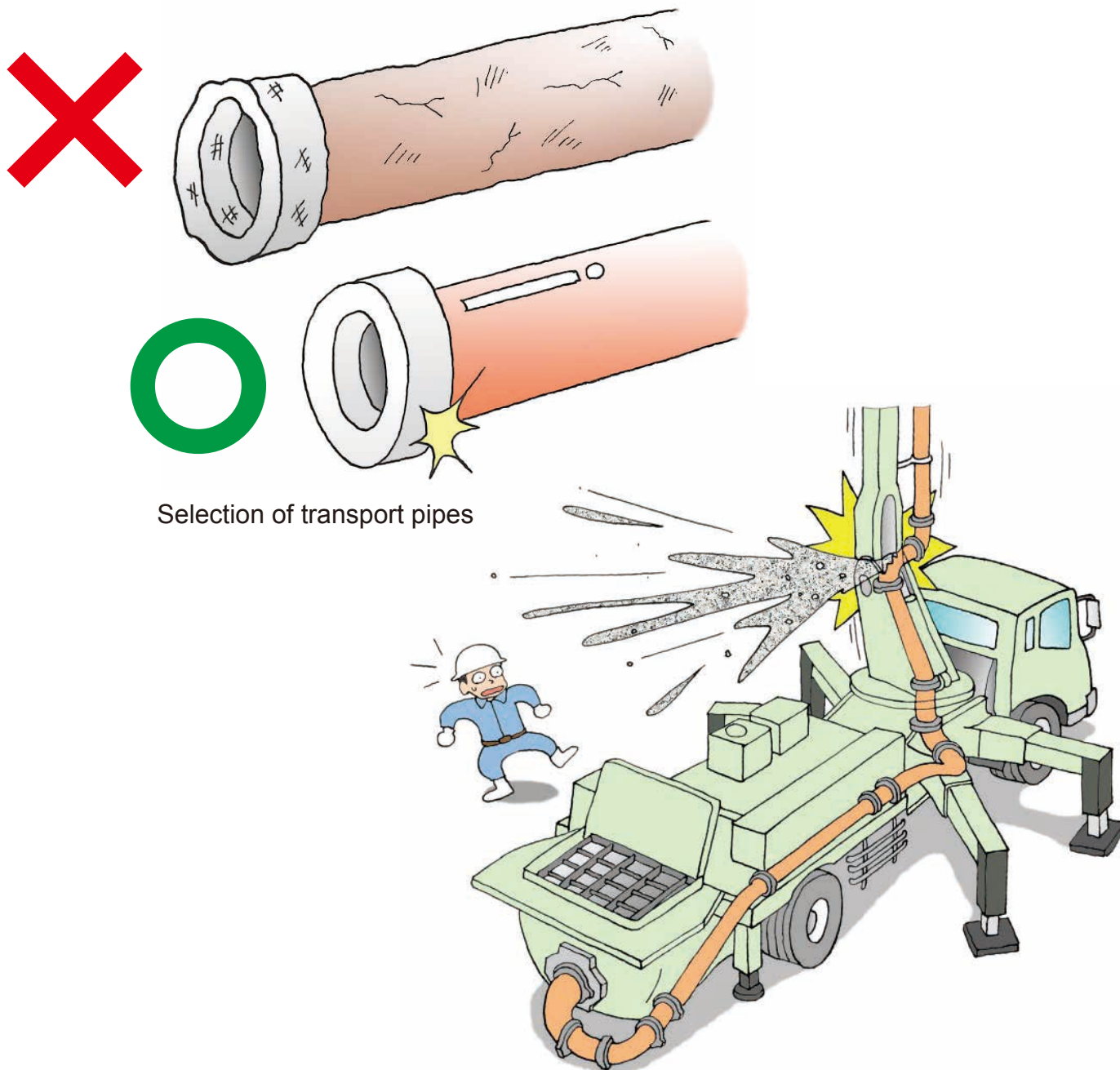
Make sure that clothing, safety protective equipment (safety helmet, Personal Fall Arrest Systems, safety shoes, etc.) are properly equipped.



Inspection of clothes and equipment for safety protection

(3) Selection of pumping pipes and equipment

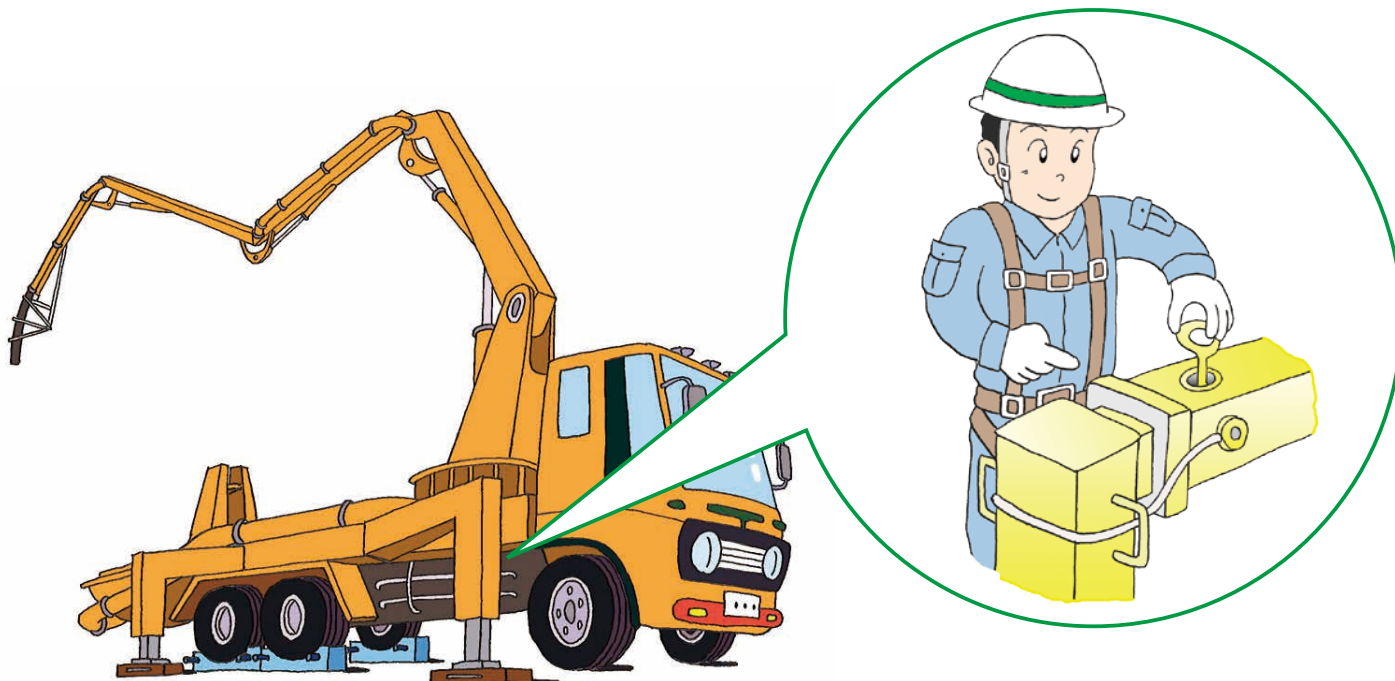
Transport pipes and equipment must be checked and selected that does not have any significant wear or damage. Using very thin or damaged transport pipes causes an accident that bursts during the pumping operation.



Example of transportation pipe rupture accident

(4) Checking of outrigger pop-out prevention devices

Before running a concrete pump vehicle, make sure that outriggers are fully retracted and the pop-out preventive devices are securely equipped.



Confirmation of the pop-out preventive devices for outrigger

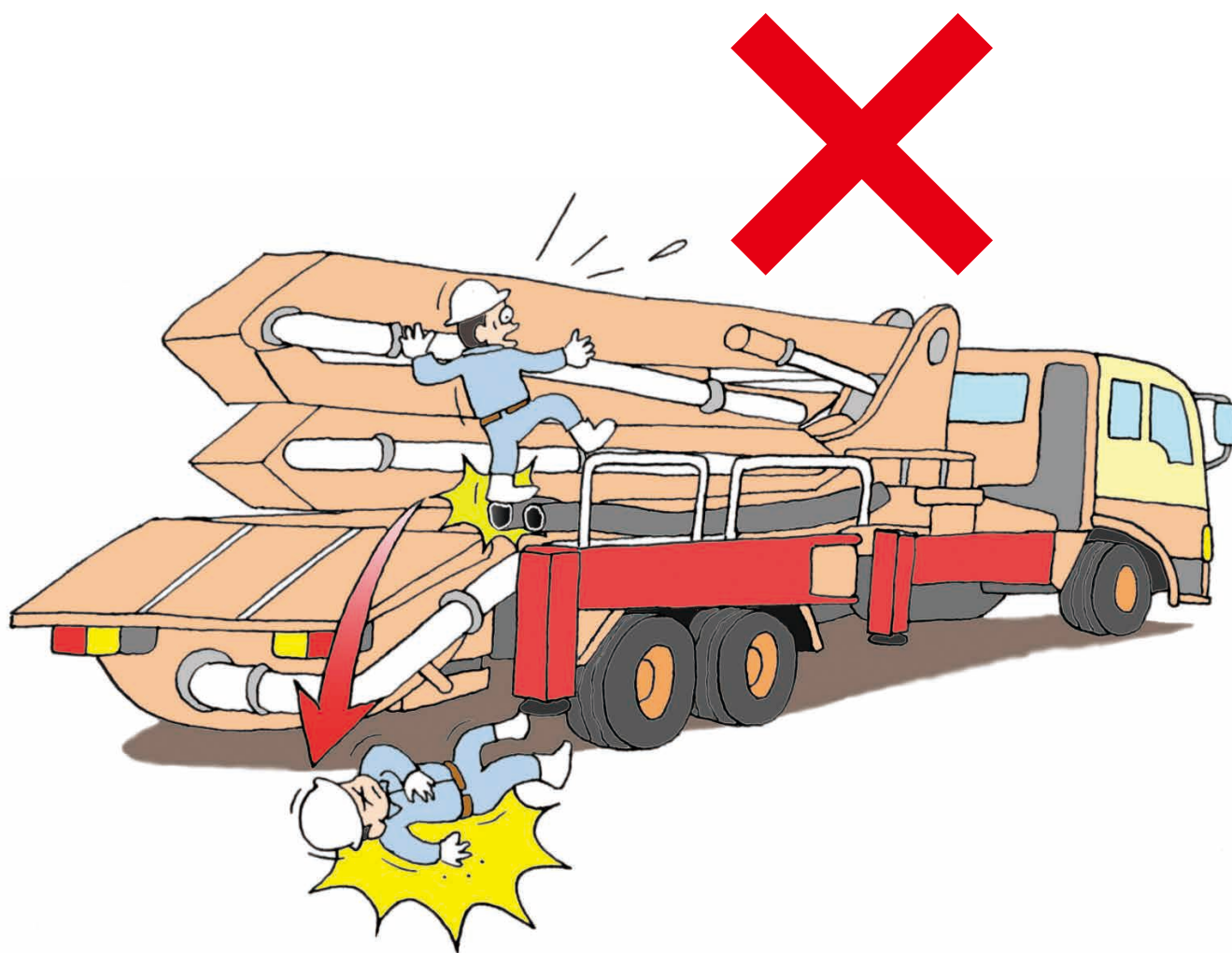


Outrigger lock pin and an example of the pop-out preventive chain

(5) Precautions for activities on a pumping machine (1)

There is a risk of falling from the top of the pump vehicle when loading of equipment and replacing the transport pipe of boom on concrete pump vehicle.

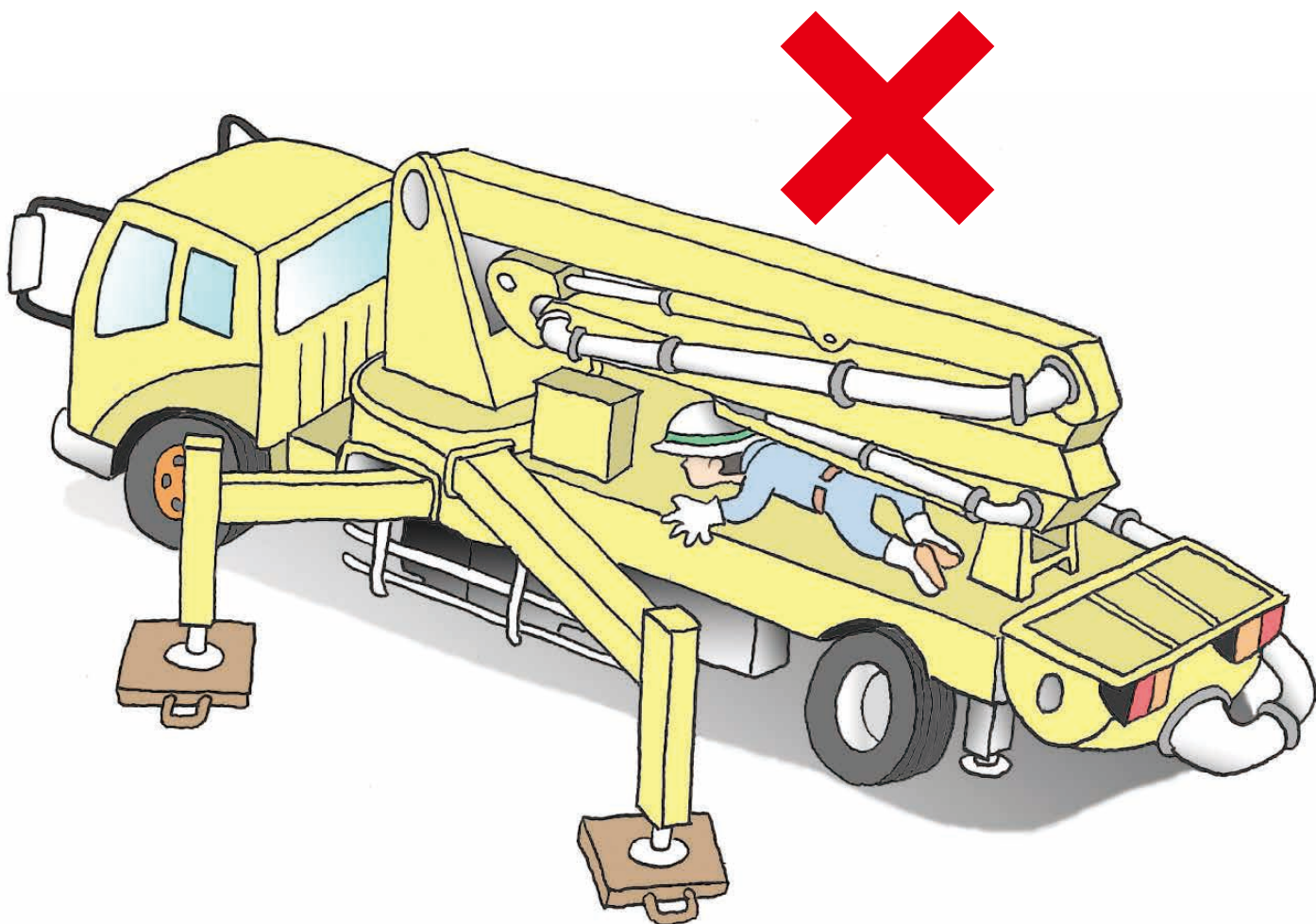
Take preventive measures such as provisions of the working floor, etc. to prevent falling.



Example of a fall accident from the top of a concrete pump vehicle

(6) Precautions for activities on a pumping machine (2)

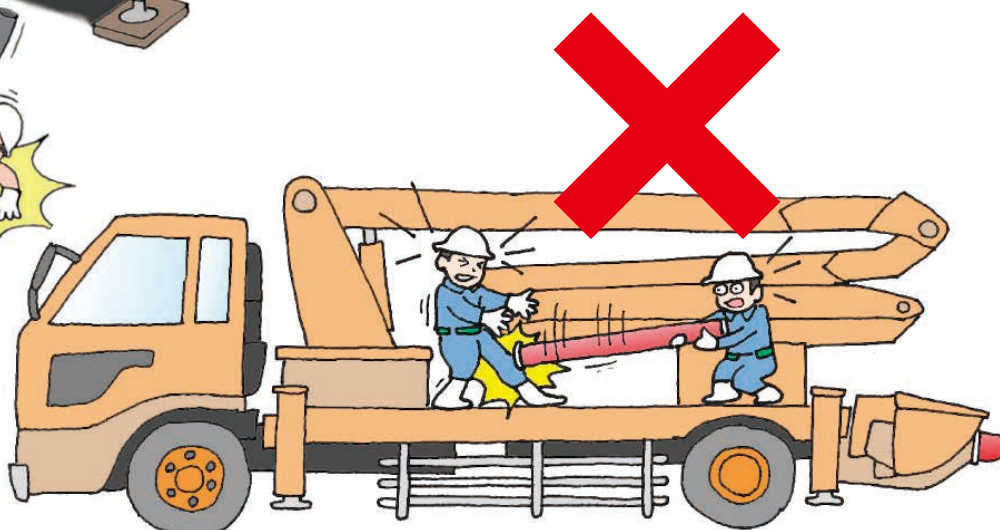
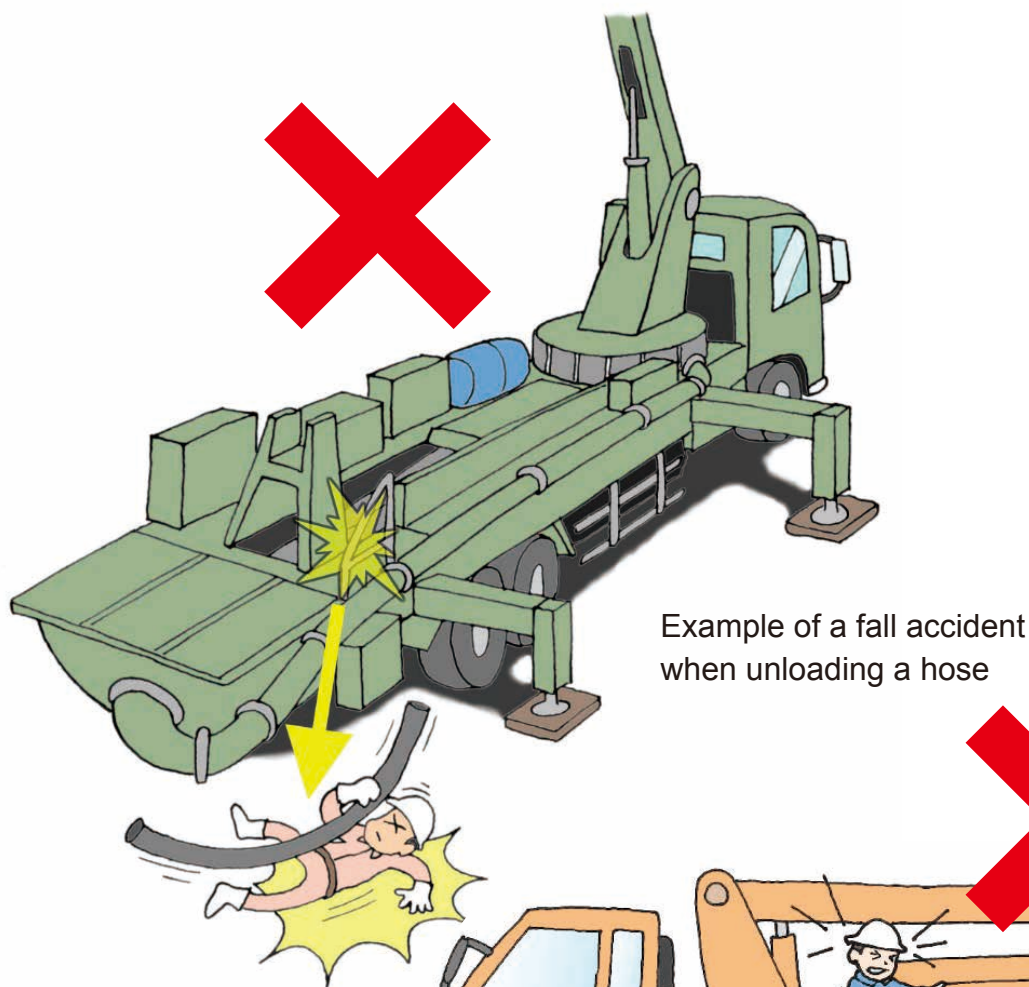
There is a risk that a boom will come down and get caught a worker between a beam and a vehicle body. Take measures to prevent accidents by moving a boom to the side of a vehicle body or using a support stand.



Example of an accident caught in a boom on a concrete pump vehicle

(7) Precautions when loading and unloading equipment

When unloading a hose and equipment from a concrete pump vehicle, be careful not to slip and fall down. Also, there is a risk of injury to hands and toes by dropping heavy objects, when loading or unloading heavy items such as transport pipes. Please carefully unload transport pipes, calling each other with more than two people.

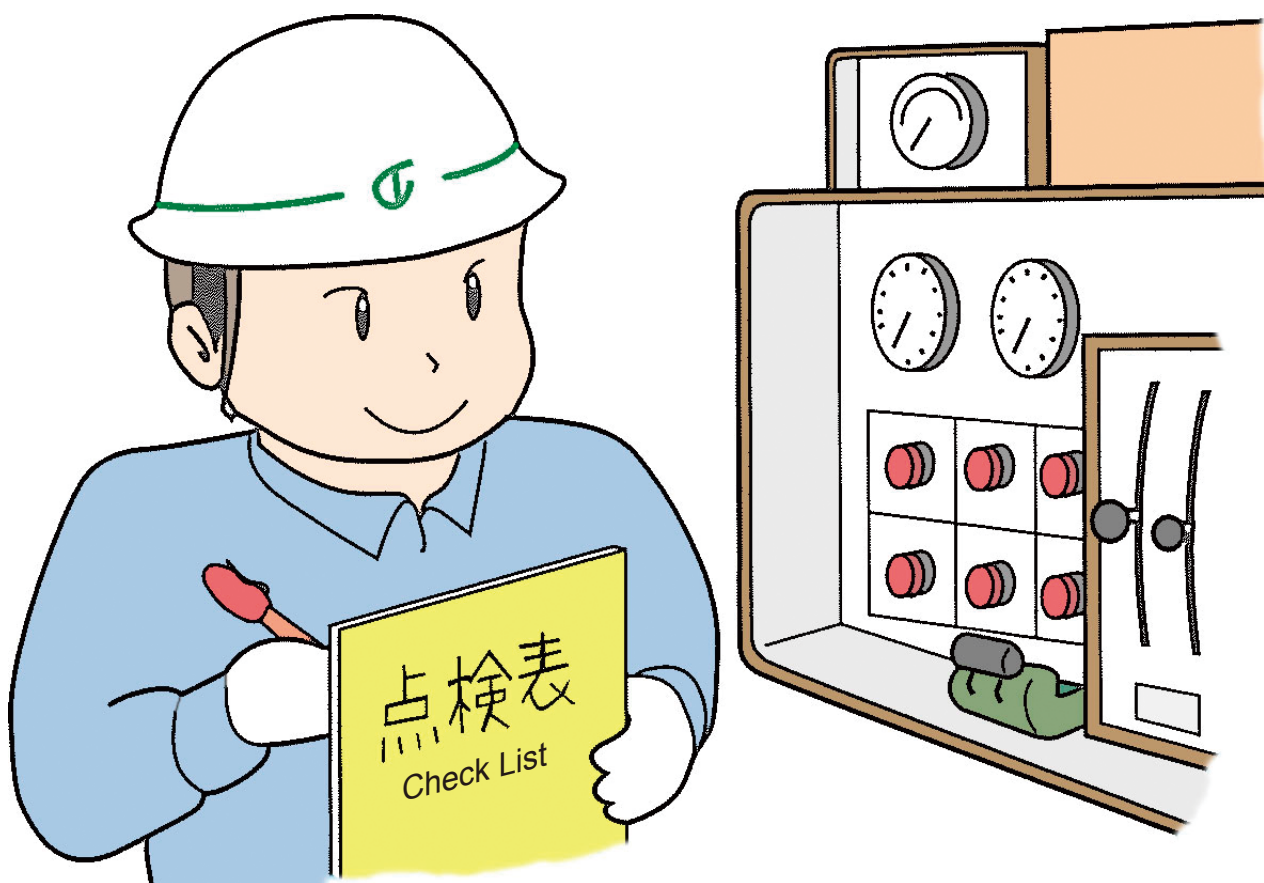


Example of an accident in which a transport pipe was dropped and a leg was injured

(8) Checkup before commencing the work

After arriving at the site, the condition where the day's pumping work can be carried out safely. It must be checked before starting the work.

Check again



Conduct checkup before commencement of the work