

“Formwork construction”

The important points for Safety and health

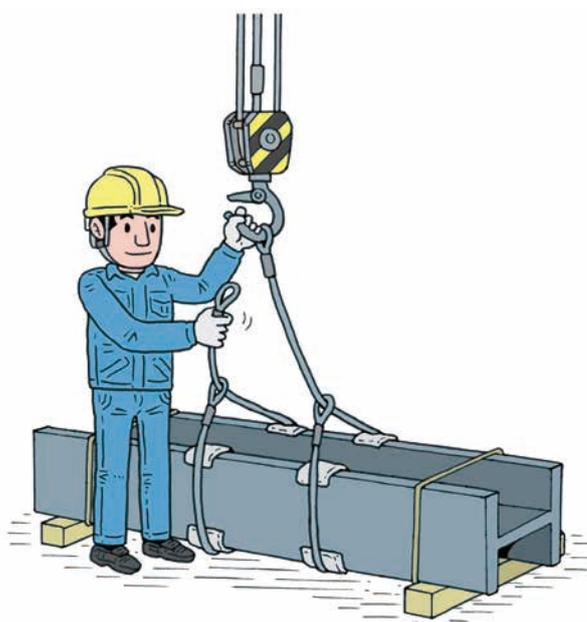
Primary qualification and others

(1) Crane work, slinging work

1. Driving qualification for truck cranes (mobile crane)

Operation of a load-type truck crane can only be carried out by a person who has the qualification according to the lifting load.

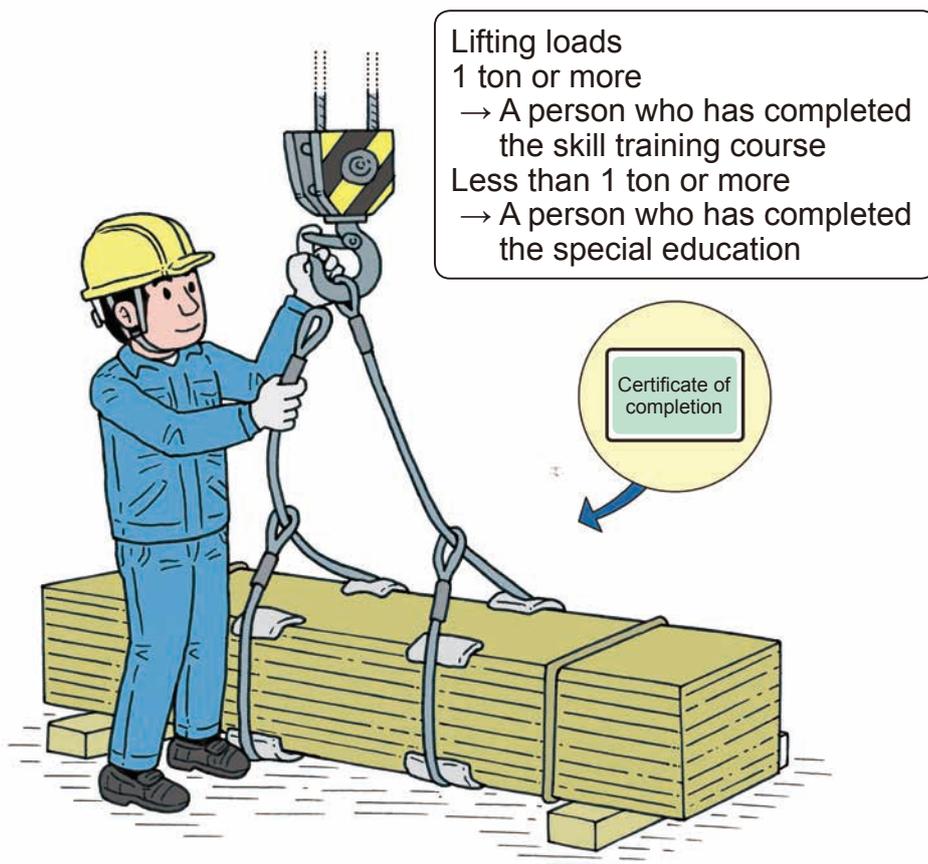
| | License | Skill training course | Special education |
|--|---------|-----------------------|-------------------|
| Operation of a mobile crane with lifting loads of 5 tons or more | ○ | | |
| Operation of a mobile cranes with lifting loads of 1 ton or more to less than 5 tons | ○ | ○ | |
| Operation of a mobile cranes with lifting loads of less than 1 ton | ○ | ○ | ○ |



(2) Qualification for slinging work

The following qualifications are required when performing sling work.

| | Skill training course | Special education |
|--|-----------------------|-------------------|
| Operation of a mobile cranes with lifting loads of 1 ton or more | ○ | |
| Operation of a mobile cranes with lifting loads of less than 1 ton | ○ | ○ |

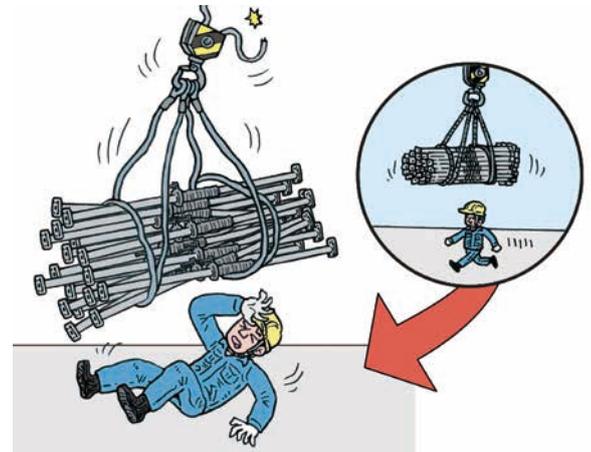


*“**Lifting loads**” is not the weight of the lifted loads, but the lifting loads of a crane or a mobile crane used.

(3) In crane work, entry under the lifted loads is prohibited

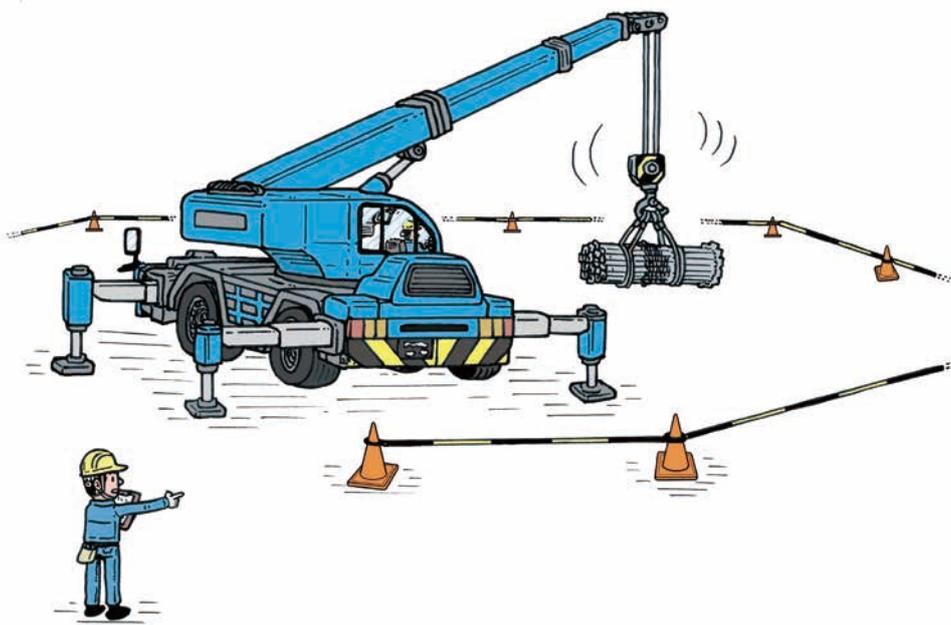
Basic Matters

1. Any work in which the lifted load passes over one's head can cause to fall. It is absolutely prohibited.
2. In order to ensure the safety of workers and the surroundings, an operation leader should be placed as entry prohibitions within the work area.



Matters to pay attention

1. Let's place a watchman who monitors the whole work site.
2. Let's install a protective fence around the heavy machinery.
3. Determine the no-entry area and prevent persons from entering.



(4) Forklift work

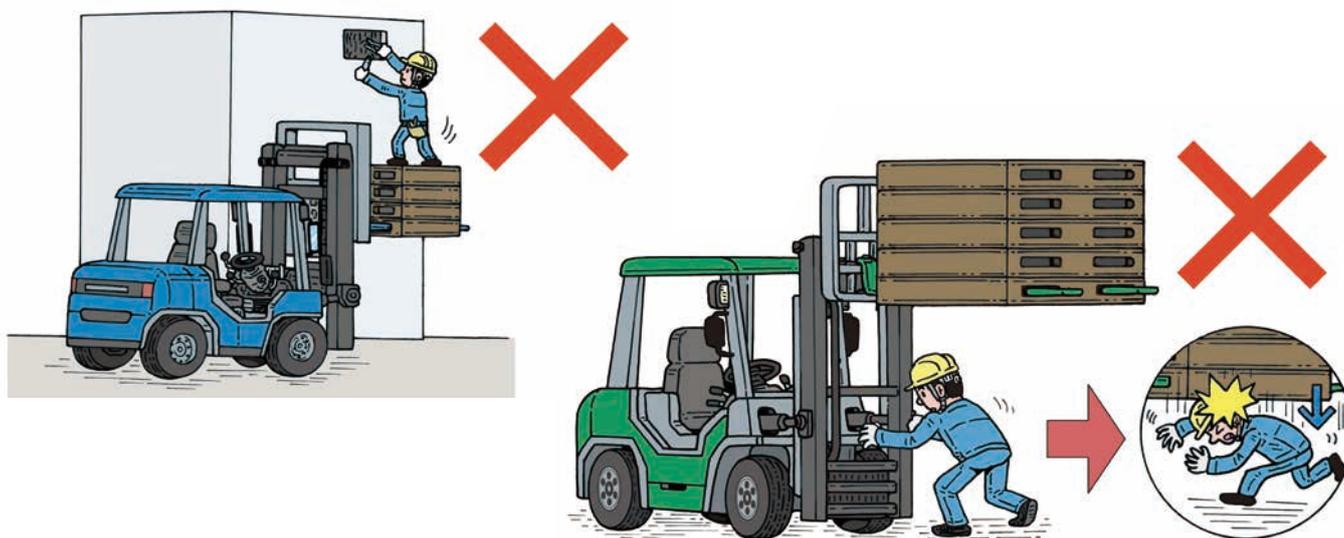
The forklift operation requires the following qualifications.

| | Skill training course | Special education |
|---|-----------------------|-------------------|
| Forklift operation with maximum load of 1ton or more | ○ | |
| Forklift operation with maximum load of less than 1 ton | ○ | ○ |



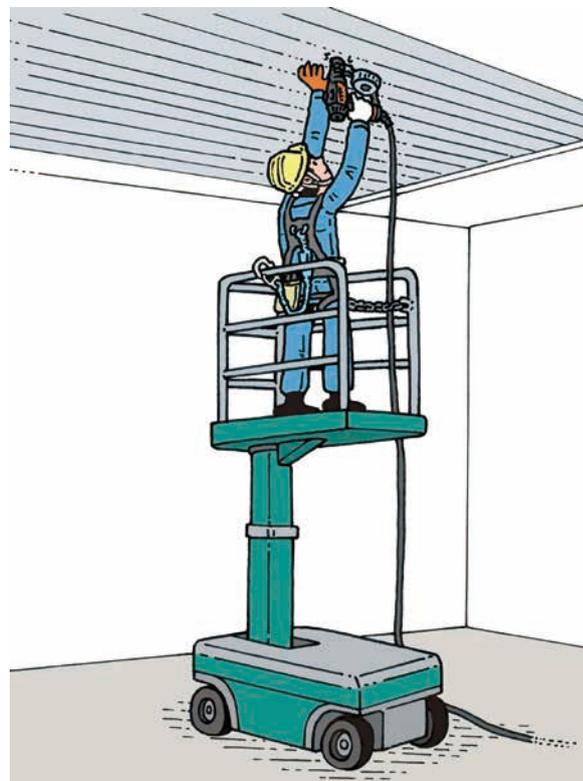
Matters to pay attention

1. Do not carelessly enter the traffic line of a forklift.
2. Do not enter the front or the rear of a forklift.
3. Do not work on a fork.
4. Do not work under the fork.



(5) Aerial work vehicle

The following qualifications are required to operate aerial work platforms.

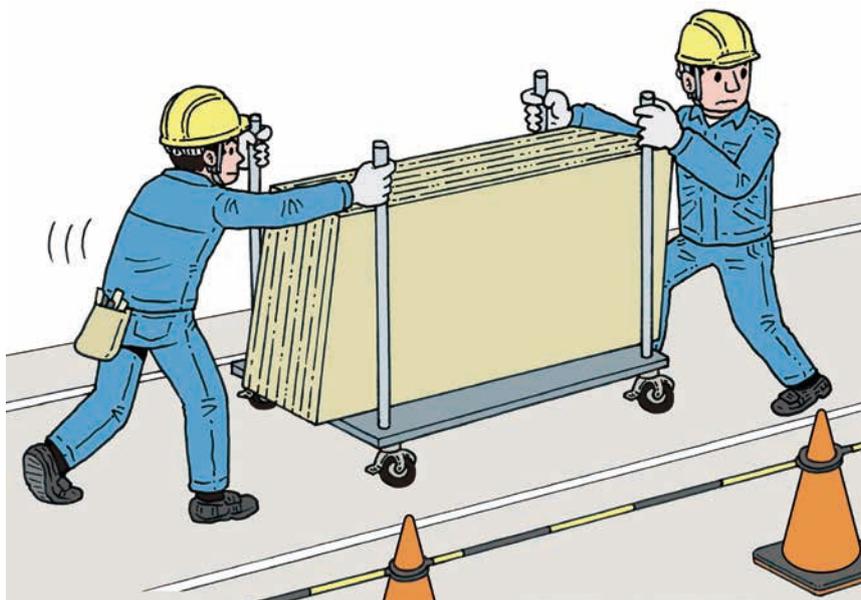


| | Skill training course | Special education |
|--|-----------------------|-------------------|
| Driving an aerial work vehicle with the working deck height of 10m or more | ○ | |
| Driving an aerial work vehicle with the working deck height of less than 10m | ○ | ○ |

Matters to pay attention

1. Let's carry out the start-up inspection before starting the work by using the inspection sheet.
2. Move after lowering the working deck to the lowest position.
3. Use the personal fall arrest system (safety belt) on a working deck.
4. To transfer between aerial work vehicles is prohibited.
5. Make sure that the working deck at the foot of the work vehicle is horizontally leveled.

(6) Flatcar work



Matters to pay attention

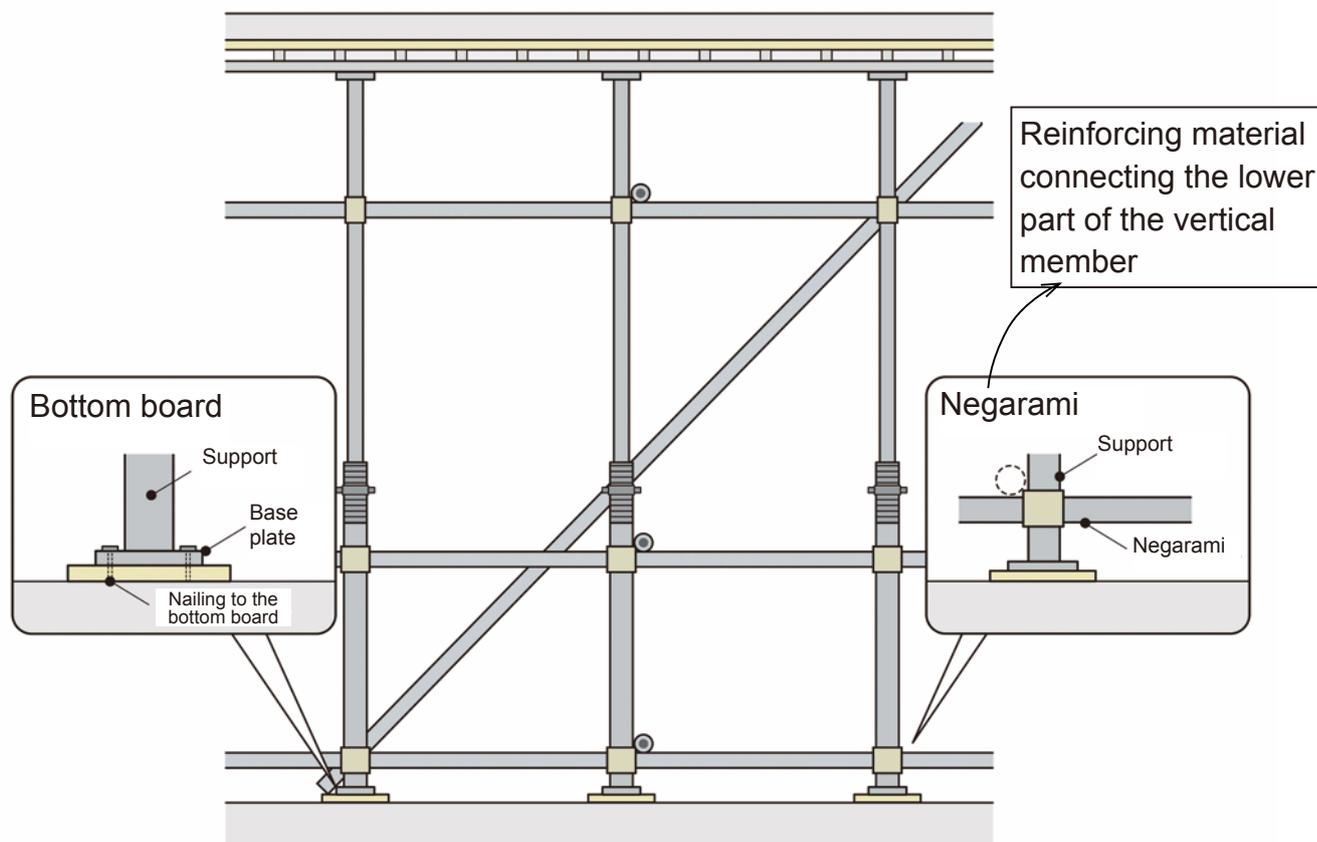
[when using]

1. Follow the allowable load and load evenly, so that it does not become unstable such as the loading is too much on one side or concentrated.
2. Be very careful when transporting on slopes or steps. And do not use on the soft ground.
3. Secure the loading with a cuneus or rope. Do not touch during the transportation.
4. Do not pull backwards or ride up when moving.
5. Do not use on uneven surfaces or ride over floors with sharp protrusions.

[When stopping]

1. Never stop on a slope.
2. Make sure the wheels are fixed when a flatcar is stationary.
3. Let load and unload heavy items with more than two people.

(7) Formwork support



(Operation chief for formwork support assembly, etc.)

Assembling and dismantling of formwork support are carried out under the instruction by an operation chief for formwork support assembly, etc.

Matters to pay attention

1. If there is a deficiency in the formwork support plan or there is a construction failure, it may lead to fall down or to collapse, leading to a very dangerous accident.
2. Let's understand the work procedure and the work under the direction of the operation chief.

(8) Lack of oxygen/Hydrogen sulfide hazardous work, etc.

Symptoms such as the oxygen deficiency may occur in closed spaces such as pits, which may lead to a very dangerous situation. When working in such a place, it is necessary to receive the special education on hypoxia.



Matters to pay attention

1. After confirming the work procedure, wait for instructions from the operation chief of oxygen deficient/hydrogen sulfide.
2. Entering into a pit is permitted after confirming that the oxygen concentration measurement result is in good condition from the operation chief of oxygen deficient/hydrogen sulfide.
3. When entering, be sure to install a blower for ventilation so that the outside air always circulates in the pit.
4. Never work alone. Make sure to work with one's colleague(s).