RIIHAN308F

Load and Unload Plant

Learner Guide Instructions

Who is this document for?

The learner.

What is in this document?

- Course information that matches the PowerPoint presentation.
- Review questions.
- Practical assessment instructions for learners.

What do you need to do before you use it for the first time?

- 1. Rebrand the document.
- 2. Review the document as part of your validation process.
- 3. Set the reading and test time limits that are highlighted in pink at the end of the document.

See the 'Read Me First' document for a complete set of instructions on how to use these resources.

LEARNER GUIDE

RIIHAN308F Load and Unload Plant

Learner Name:	
Learner ID:	
Learner Contact Number:	
Learner Email Address:	
Date Training Commenced:	

This Book Contains:

Course Information.

 \Box Review Questions.

□ Practical Assessment overview and instructions.

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1.1 Introduction



These training materials are based on the unit of competency **RIIHAN308F Load** and **Unload Plant.**

You will learn about:

- Planning and preparing for loading and unloading of plant.
- Loading the plant.
- Unloading the plant.

1.1.1 High Risk Plant

When loading and unloading plant on worksites you need to be aware of the type of plant that you are working with.

In Australia, anyone moving a high risk plant item needs a national high risk work licence for that particular item of plant. Even if you are only driving the plant on or off a trailer, if the item is considered high risk then you must be appropriately licensed before you can operate it.

High risk plant may include:

- Vehicle loading cranes.
- Forklifts, including order picking forklifts.
- Boom type elevating work platforms.
- Certain types of mobile cranes.

1.1.2 Chain of Responsibility

Chain of responsibility (COR) laws exist to make sure everybody involved in the heavy vehicle supply chain share the responsibility for compliance, health and safety. As loading and unloading equipment forms part of the supply chain, you have a responsibility under COR laws to act in accordance with the Heavy Vehicle National Law (HVNL).

You are part of the COR because your job gives you control or influence over how the loading, securing and unloading of plant and equipment is conducted as well as controlling the associated risks.

Part of your job also includes determining the mass, dimension or loading requirements of the plant or equipment. This also falls under the COR laws.

Review Questions

1.	a) List 2 examples of high risk plant.b) What is your responsibility under chain of responsibility laws?	
a)		
b)		
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1.2 Site Policies and Procedures

You must follow all safety rules and instructions when performing any work. If you are not sure about what you should do, ask your boss or supervisor. They will tell you what you need to do and how to do it in a safe way.

Before starting your work you need to make sure you have access to all operations documentation for the job. This will help you to do your work in the safest way and make sure all work is compliant.



Operations documentation includes:

Site Details

The information and safety requirements of the workplace environment (where you will be working).

Hazard Details

Any hazards in the work area or related to the work. This could also include instructions on how to handle dangerous or hazardous materials.

Task Details

Instructions of what the work is or what you will be doing (this can include diagrams or plans). Also instructions on how to safely do the job.

Faulty Equipment Procedures

Isolation procedures to follow or forms to fill out.

Signage

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Site signage tells you what equipment you need to have, or areas that are not safe to be in.

Emergency Procedures

Instructions on what to do in emergency situations, for example if there is a fire, accident or emergency where evacuation or first aid is needed.

Equipment and Work Instructions

Details of how to operate plant and equipment and the sequence of work to be done.

worksite will also have instructions for working safely including:

Emergency procedures, including using fire fighting equipment, first aid and evacuation.

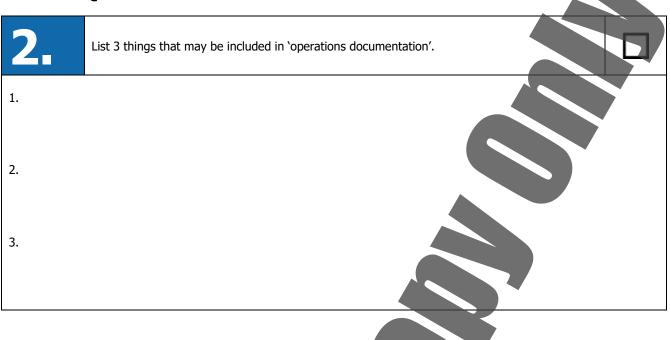
Handling hazardous materials.

Safe operating procedures.

Personal protective clothing and equipment.

Safe use of tools and equipment.

Review Questions



1.3 Work Instructions

You need to be clear about what work you will be doing. Make sure you have everything about the job written down before you start. This includes what you will be doing, how you will be doing it and what equipment you will be using.

Make sure you have all of the details about where you will be working. For example:



- **The Site** Is there clear access for all equipment? What are the ground conditions like? Is there a level place for the plant to be loaded/unloaded?
- The Weather Is there wind, rain or other bad weather? Is it too dark?
- Facilities and Services Are there power lines or other overhead or underground services to think about?
- **Traffic** Are there people, vehicles or other equipment in the area that you need to think about? Do you need to get them moved out of the area? Do you need to set up barriers or signs?
 - **Hazards** Are there dangerous materials to work around or think about? Will you be working close to power lines or other people?

You also need to make sure you have all of the details about the kind of work you will be doing:

- The Task What type of plant is being loaded and unloaded? How much does it weigh? What type of float or trailer will be used?
- Plant and Equipment What type of float/trailer will be used? How big is it? How much room does it need? What is the maximum capacity? Does it have appropriate tie-down points?
- Communications How are you going to communicate with other workers?
- Procedures and Rules Do you need any special permits or licences? Are there site rules that affect the way you will do the work?



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1.3.1 Reading and Checking Your Work Instructions

All work needs to follow worksite, environment and company safety procedures.

Procedures help to make sure that all work is done in a safe way, without damaging equipment or putting people in unsafe situations. They also help to make sure that work is done in the correct order and doesn't interrupt or get in the way of other work that is happening on the site.

Your work instructions will tell you the safest way to do the job, and the equipment that you will need to use. It is a good idea to check your work instructions with your boss or supervisor to make sure you know exactly what you need to do.

If you don't know where to get your instructions or you can't understand them, you can ask your boss or supervisor. They will tell you where to find your work instructions and explain what they mean.

1.3.2 Work Method Statements



Many worksites require a work method statement before any work can start. A work method statement is a list of steps that outlines how a job will be done. It also includes any hazards that occur at each step, and what you need to do about them.

These statements can also be known as Safe Work Method Statement (SWMS), Job Safety Analysis (JSA) or Safe Operating Procedure (SOP).

Work method statements are a great tool for organising your work activities and making sure you have completed everything. This is because they outline the details of all tools, equipment and coordination with other workers relating to your job. Make sure all of these are available and ready before you start.

1.3.3 Safety Data Sheets

A Safety Data Sheet (SDS) is a detailed document outlining the risks and hazards associated with handling chemicals and other materials.

The SDS will contain information about

Basic Details of the Chemical or Material	Name, type and identification number.
Hazards Associated with the Material	Whether it is flammable or corrosive.
Safe Handling and Storage Procedures	PPE to use, sealed containers or storage temperatures.
Emergency Procedures	What to do if the chemical or material gets out of hand.
Disposal Procedures	Suggestions for removing the chemical or material from the site.

It will be issued by the manufacturer and may or may not include material handling methods.

Talk to your WHS representative or supervisor if you have any questions about legislative requirements relating to your work.

Review Q	uestions	
3.	Vhat details about the work area can you get from your work instructions?	D
4 . [•]	Why is it a good idea to check your work instructions with your boss or supervisor?	
5.	Vhat is a work method statement?	
]
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1.4 Hazard Identification

Before you start work, you need to check for any hazards or dangers in the area. If you find a hazard or danger you need to do something to control it. This will help to make the workplace safer.

Part of your job is to look around to see if you can find any hazards before you start any work.

A hazard is the thing or situation with the potential to cause injury, harm or damage.

When you start checking for hazards, make sure you look everywhere. A good way to do this is to check:

- Up high above your head.
- All around you at eye level.
- Down low on the ground (and also think about what is under the ground).





RIIHAN308F Load and Unload Plant Learner Guide Page 10 Some hazards you should check for in the work area:



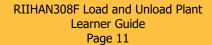








- Overhead and underground services.
- Uneven, soft, slippery or unstable terrain.
- Trees.
- Fires.
- Bridges.
- Excavations.
- Buildings.
- Traffic.
- Embankments.
- Cuttings.
- Hazardous materials.
- Structures such as site offices and scaffolds.
- The weather and environment.
- Other workers or site visitors
- Pedestrians and other public traffic.
- On site vehicles, plant, equipment and machinery.
- Poorly maintained or faulty equipment.
- Hazards from components of the plant that is being loaded/unloaded (e.g. hoses under pressure, hydraulic tanks, cooling systems or braking systems, weight, tyres, attachments etc.).
 - Hazards from components of the trailer.
 - Road surface and edge solidity.
 - Handling characteristics of the plant item during loading/unloading.
 - Chemical hazards such as fuel, chemicals, contaminants, gases or dusts.



1.4.1 Working Near Power Lines

When loading and unloading plant you need to be aware of any overhead power lines that you could come into contact with during your work activities. This will be most common if the plant you are loading is significantly taller than the trailer.

Working near power lines can be really dangerous if you are not careful.

It is very important that you know the safe operating distances for different types of power lines and the steps you must take if your job needs you to work closer than the safe distances.

Generally, if you need to work closer than the safe work distance you must:

- Contact the local electrical authority for permission to work closer (this is called an exemption).
- Have the power lines shut off. If this is not possible then have the power lines insulated.
- Use a spotter (depending on local laws and rules).

Distances are different depending on the voltage of the power lines. You should check with the local electrical authority for information and advice to find out the voltage of power lines in your work area.

QLD

The Queensland Electrical Safety Regulation breaks down the distances in detail. Exclusion zones are broken down not only by size of electric/power line but also by the competency level of the operator. This means that the requirements should be clarified with the electrical authority before work commences even if the distance appears to be outside the zones.

The following minimum distances are provided as guidance:

Electric/Power Line Type	Distance
Up to 132kV	3.0m
132kV up to 330kV	6.0m
330kV and above	8.0m

NSW

In New South Wales, for anyone who is not accredited, equipment operation may not be any closer than the following distances to electric/power lines:

Electric/Power Line Type	Distance
Up to and including, 132kV	3.0m
Above 132kV up to and including 330kV	6.0m
Above 330kv	8.0m

To work closer than these distances requires authority from the relevant electrical authority and adherence to cl.64(2)(e) of the regulations.



ACT

In the ACT mobile plant operators and persons erecting or working from scaffolding must maintain a safe minimum distance to power lines as outlined in the table below:

Distance	
4.0m	
5.0m	
	4.0m

VIC

In Victoria the Framework for Undertaking Work Near Overhead and Underground Assets states that equipment must not be closer than the following distances to electric/power lines:

Electric/Power Line Type	Distance
Distribution lines up to and including 66kV (power poles)	6.4m (or 3.0m with a qualified spotter)
Transmission lines greater than 66kV (towers)	10m (or 8m with a qualified spotter)

TAS

In Tasmania equipment must not be closer than the following distances to electric/power lines:

Electric/Power Line Type	Distance
Up to and including 133kV (poles)	6.4m (or 3m with a safety observer)
Greater than 133kV (towers)	10m (or 8m with a safety observer)

SA

In South Australia mobile plant operators and persons erecting or working from scaffolding must maintain a safe minimum distance to power lines as outlined in the table below:

Electric/Power Line Type	Distance
Up to 132kv (including 132kv poles)	6.4m (or 3.0m with a spotter)
132kv or more (including 132kv towers	10.0m (or 8.0m with a spotter)

WA

In Western Australia this falls under Regulation 3.64 from the OSH Regulations and states the following as the minimum distances:

Electric/Power Line Type	Distance
Up to 1kV (insulated)	0.5m
Up to 1kV (uninsulated)	1.0m
Above 1kV and up to 33kV	3.0m
Above 33kV	6.0m



NT

In the Northern Territory equipment must not be closer than the following distances to electric/power line

Electric/Power Line Type	Distance	
Up to and including 132kV (distribution lines)	6.4m (or 3m with a spotter)	
Greater than 132kV (transmission lines)	10m (or 8m with a spotter)	

1.4.1.1 Tiger Tails

Tiger tails are used to show where overhead power lines are. They are bright coloured and easier to spot overhead than the standard line on its own.

Just because power lines have tiger tails doesn't mean they are safe to hit. The tige tails do not stop the flow of power. Even with tiger tails in sight you still must keep to the safe distances for the state or territory you are working in.

List 4 examples of hazards that you may identify in the work area. 1. 2. 3. 4. **RIIHAN308F Load and Unload Plant** Learner Guide Page 14

Review Questions

1.5 Hazard Control

After you have found hazards or dangers you need to work out how bad they are:



The best way to control hazards is to use the Hierarchy of Hazard Control. The Hierarchy of Hazard Control is the name given to a range of control methods used to eliminate or control hazards and risks in the workplace.

You start at the top of the list and see if you can take away (eliminate) the	Elimination
hazard or danger.	Substitution
If you can't take it away you move down the list to see if you can swap it for	Isolation
something safer (substitution).	Engineering Controls
Keep working through the list until you find something that controls that	Administrative Controls
hazard or danger.	Personal Protective Equipment

This table shows you the 6 different types of controls in order from best to worst:

Hierarchy Level	Action
1. Elimination	Completely remove the hazard. This is the best kind of hazard control.
2. Substitution	Swap a dangerous work method or situation for one that is less dangerous.
3. Isolation	Isolate or restrict access to the hazard.
4. Engineering Controls	Use equipment to lower the risk level.
5. Administrative Controls	Site rules and policies attempt to control a hazard.
6. Personal Protective Equipment	The least effective control. Use PPE while you carry out your work.



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