Tier 3: Warehouse Orientation

1. Warehouse Orientation

1.1 Warehouse Orientation



Warehouse Tier Three – Site Specific Access

1.2 Course Objectives

Course Objectives

Upon completion of this module as a worker you will be able to:

- Understand Plant Entry Procedure
- Identify Site Specific Hazards and Controls for the Warehouse.
- Follow Procedures in the event of:
 - · Equipment Damage
 - · Personal Injury
 - Process Upset (Emergency Preparedness)
- Complete Plant Exit Procedure Checklist

2. Introduction

2.1 Introduction



2.2 Warehouse Overview

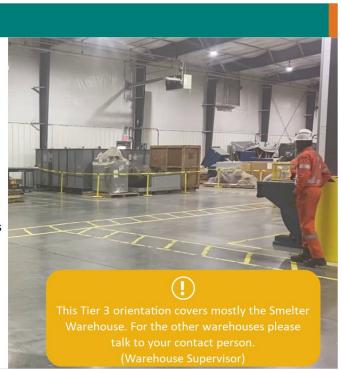
Warehouse Overview

Warehousing involves the receiving, storage and distribution of goods and supplies.

The warehouse can be a high traffic area with delivery vehicles, loading docks, and forklifts used to move goods on standard pallets from point A to point B.

The Warehouse stores valuable materials and supplies; as a result these goods must be kept secure.

Warehouse areas are locked at all times and only authorized personnel are allowed access.



2.3 Warehouse Overview

Warehouse Overview

Hours of Operation

The Warehouses at Vale are typically a Monday to Friday dayshift operation.

Operating Hours are:		
Smelter Warehouse 61	7:30AM to 4:00PM	
Divisional Shops Warehouse	7:30AM to 4:00PM	
Totten Warehouse	7:00AM to 3:30PM	
Divisional Shops Warehouse	7:30AM to 4:00PM	
Garson Warehouse	6:30AM to 3:00PM	
Coleman Warehouse	6:30AM to 3:00PM	
North Warehouse	7:00AM to 3:30PM	
Clarabelle Warehouse	7:00AM to 3:30PM	
Nickel Refinery Warehouse	7:30AM to 4:00PM	I IIIII
Creighton Warehouse	7:00AM to 3:00PM	
CMD Warehouse	7:00AM to 3:00PM	
KCD Warehouse	6:30AM to 3:00PM	

3. Plant Entry

3.1 Plant Entry



3.2 Approaching The Plant

Approaching the Plant

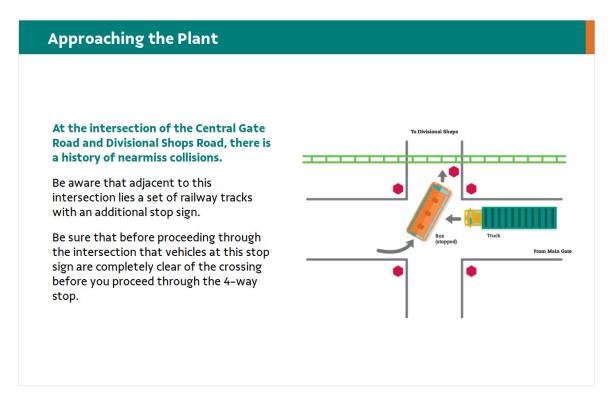
Using the main gate entrance to the Smelter, follow the main route and turn left on Ring Road South at the 'Y', continue to designated door. Identified on the map as building B56.

The Warehouse is located across from the Transportation Department area.

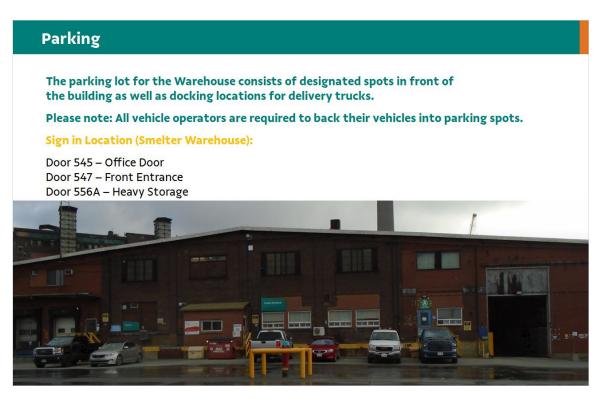
Some workers may have access through the General Office gate.



3.3 Approaching The Plant



3.4 Parking



3.5 Personal Protective Equipment

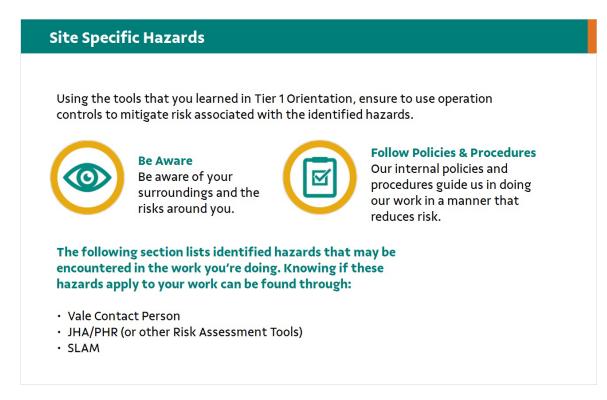


4. Plant Hazards and Controls

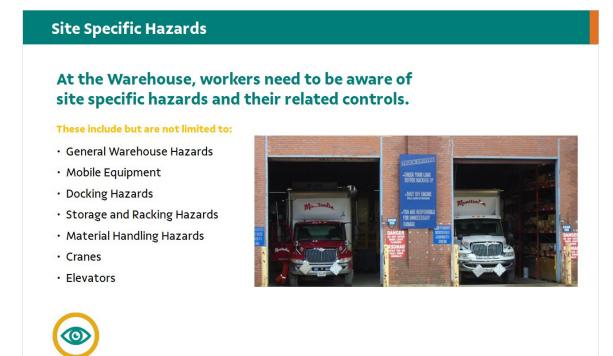
4.1 Plant Hazards and Controls



4.2 Site Specific Hazards



4.3 Site Specific Hazards



4.4 Warehouse Specific - Hazards

Warehouse Specific Hazards

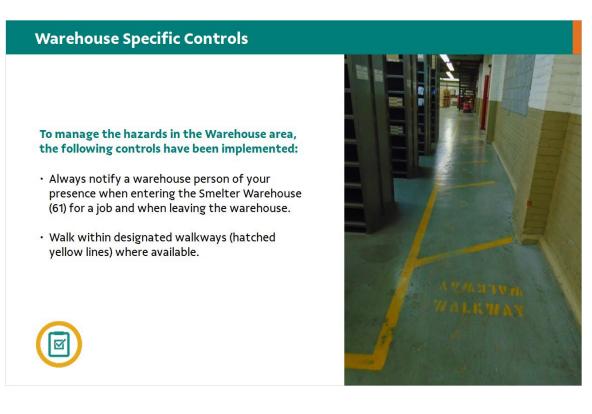
The warehouse area has it's own unique set of hazards due to the work and arrangement of the area:

- Numerous aisles that can be narrow and have reduced visibility for mobile equipment operators to see pedestrians.
- Increased frequency of mobile traffic within the area increases the possibility of collisions with pedestrians and/or other equipment.
- Vehicular access is restricted using the appropriate measures when pedestrians are in the area.

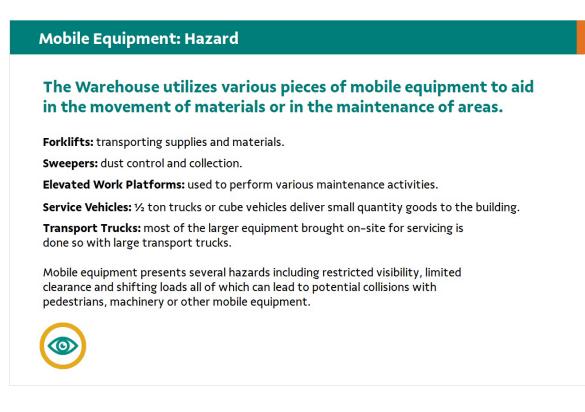




4.5 Warehouse Specific - Hazards



4.6 Mobile Equipment: Hazard



4.7 Mobile Equipment: Control

Mobile Equipment: Control

In addition to the general controls associated with mobile equipment, the Warehouse has mandated to following controls applicable to mobile equipment in their area:

- The use of overhead doors is restricted to mobile equipment only. Pedestrians are only to use personnel-doors.
- Walk within designated walkways (hatched yellow lines) where available.
- Horns are to be sounded at all aisle entrances and exits.
- Mobile equipment shall not enter work area without authorization of the employees present in work area.





4.8 Docking: Hazard

Docking: Hazard

Loading and unloading materials, goods and products from trucks are daily activities at the shipping dock. Globally, these activities are also a regular and frequent source of workplace injuries and incidents due to any of the following.

- Congestion and traffic
- Inadequate lighting
- Uneven surfaces
- Contaminants in the air such as exhaust
- Equipment in poor working order
- Lack of safe working procedures
- Hazards associated with lifting devices, trucks, rolling conveyors, doors and other moving equipment and parts





4.9 Docking: Control

Docking: Control

Good Practices to follow in docking areas include:

- All personnel on foot must be clear of the loading zones during all mechanized loading or unloading operations
- Identify potential hazards before loading or unloading
- Properly secure loads before moving
- Protect all drop-offs, and pinch points on loading docks and lift gates
- Never be downhill from a moving load
- Use chocks and other devices
- Comply with Vale High-Vis Clothing Standard (SPI-23)
- When driving equipment on to a trailer the transport ignition keys must be secured in the lock box.





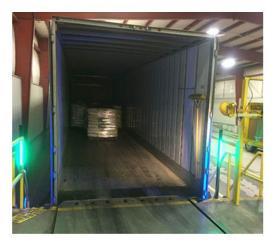
4.10 Docking: Control

Docking: Control

To minimize the risk of atmospheric hazards from vehicle exhaust, all trucks entering door # 555 and 556 must shut off engines while loading or unloading.

To maintain the quality of air in the area, the warehouse is equipped with a monitor to measure carbon monoxide (CO) and provide a 120dB pulsating alarm that will warn people in the event of CO.

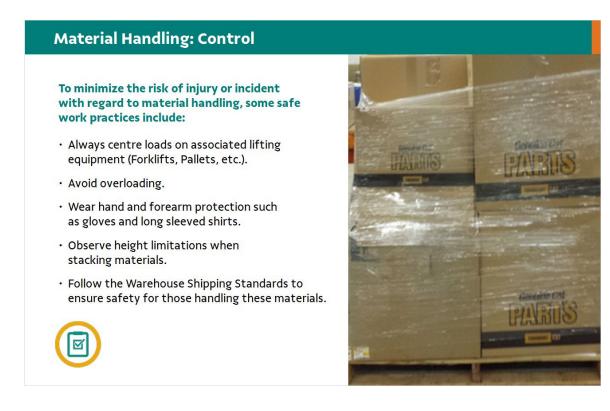




4.11 Material Handling: Hazard



4.12 Material Handling: Control



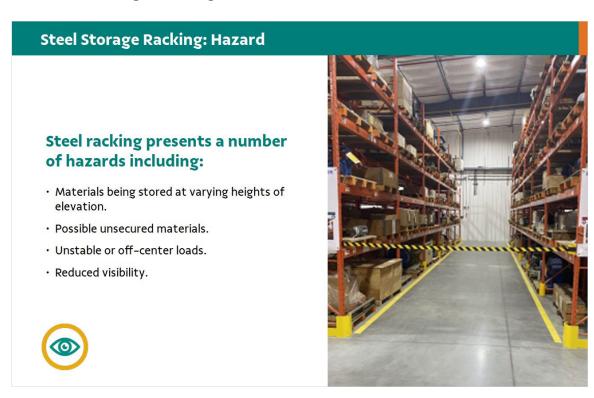
4.13 Material Handling: Control



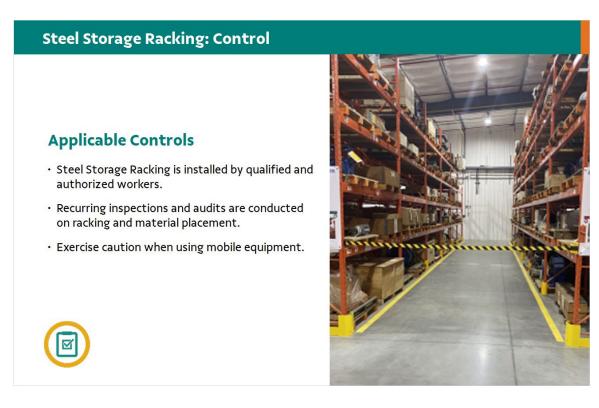
4.14 Material Handling: Control



4.15 Steel Storage Racking - Hazard



4.16 Steel Storage Racking - Control



4.17 Elevators: Hazard and Control

Elevators: Hazard and Control

Freight Elevators are potential sources of serious injuries to workers who aren't mindful of the task or situation at hand.

Restricted clearance, shifting loads, and the general orientation/layout of the elevator introduce many hazards.

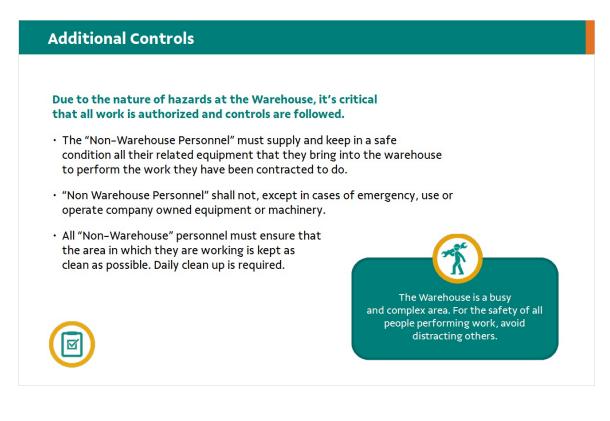


The Warehouse mandates the following controls:

- Elevators require permission from the Vale Contact before use.
- Do not use elevator with a forklift.
- No personnel riding unless accompanying freight and the personnel must have a suitable means of communication such as radios, portable phone, etc.



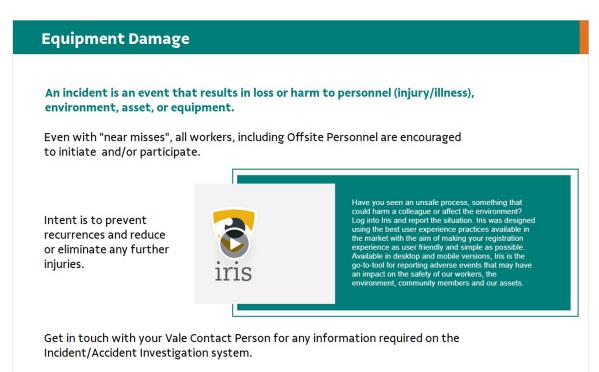
4.18 Additional Controls



- **5. Incident/Accident Reporting**
- 5.1 Incident/Accident Reporting



5.2 Incident/Accident Reporting



6. Personal Injury

6.1 Personal Injury



6.2 Personal Injury

Personal Injury

Warehouse

In the case of personal injury, generally, contact your Supervisor..... report immediately to First Aid. In the event you cannot physically report to First Aid, phone first aid:

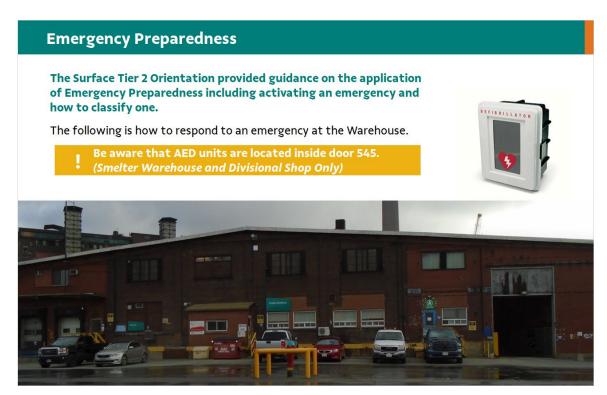
Emergency Nun	nbers:	
Smelter	682-6622	Furnace B52
Nickel Refinery	682-7214	B49 B49 B49 B55 B56 B56 B56 B56 B56 B56 B56 B56 B56
Coleman Mine	966 – 4111	
Copper Cliff Mine	682-5264	
Frood/Stobie	525-3282	
Copper Cliff Mine	682-5264	
Garson Mine	693-2224	
Totten Mine	866-3800	

7. Emergency Preparedness

7.1 Emergency Preparedness



7.2 Emergency Preparedness



7.3 External Safe Assembly Area



7.4 Internal Safe Assembly Area

Internal Safe Assembly Area

The Internal Safe Assembly area for the Warehouse is the lunchroom at Door 545.

This is where to proceed in the case of an intermittent tone alert emergency.

- The Emergency Designate will account for Crew Members.
- Report immediately to the Emergency Designate if you suspect someone is still inside the building.





8. Plant Exit

8.1 Plant Exit



8.2 Plant Exit

Plant Exit

Good work practices dictate that you close the loop on work you were doing to avoid creating risks or hazards for other work groups, cross shifts, or other work in the area. Here are some tasks to consider when getting ready to exit the plant to ensure your safety and that of those around you:

- ✓ Housekeeping Is your worksite cleaned up after your job?
- ✓ Personal Lock and Tag Has your personal protection been removed at the end of the shift?
- ✓ Status Tagging Is there ongoing work that needs a status tag placed or is there equipment in Bad Order that needs to be identified?
- End States Have you left the process in the proper state?
- ✓ Waste Segregation Have you disposed of materials in the appropriate waste receptacles/bin/area?
- ✓ **Control room** Do I need to let the control room know that I'm clear of an area?
- ✓ Vale Contact Person Do they need an end of shift report from me?
- Permits Do I need to close or hand in any permits?
- ✓ Sign out At the gate or other designated areas.

9. Conclusion

9.1 Conclusion



9.2 Conclusion

Conclusion

This concludes the material for the Warehouse 61 Tier 3 Orientation. You should now have a working knowledge and understanding of:

- Plant Entry
- Site Specific Hazards and Controls for the Warehouse.
- Procedures in the event of:
 - Equipment Damage
 - Personal Injury
 - Process Upset (Emergency Preparedness)
- Plant Exit Procedure

This Orientation provided information to access the Warehouse. In order to feel comfortable with the area, you may arrange a field visit with your Vale Contact Person to specifically identify procedures provided in the Orientation.

Additionally, depending on the site or work you're doing, you may require task-specific information through either the local Learning & Development Group or your Vale Contact Person.