Tier 3: Stobie Mine Surface Plant Orientation - 28

1. Stobie Intro

1.1 Untitled Slide



1.2 Untitled Slide



1.3 Disclaimer

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The information contained within this orientation is intended for controlled use within the Learning and Development Department for Ontario Operations. The content and structure of this orientation provides the learner with an overview of Sudbury Operations focusing on HR policies, Health, Safety and Environment and Operational Controls.

The information herein is intended as a training presentation and is not intended to be the sole source of reference information for this system.

The content of this document is current as of the latest release date. Any discrepancies found should be noted and reported to the Learning and Development Department for action.



1.4 Untitled Slide

We are what we do.

Mission

To transform natural resources into prosperity and sustainable development.

To be the number one global natural resources company in creating long term value, through excellence and passion for people and the

Values

- 1. Life matters most
- 2. Value our people
- 3. Prize our planet
- 4. Do what is right
- 5. Improve together
- 6. Make it happen

1.5 Life Matters Most

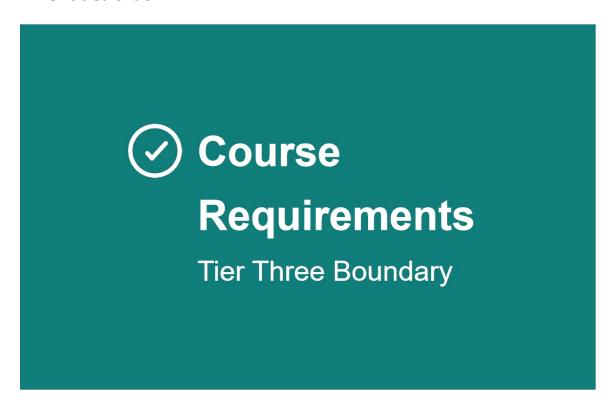
Life Matters Most

At Vale we believe Life Matters Most and that no job is worth doing if it cannot be done safely.



2. Course Requirements

2.1 Untitled Slide



2.2 Course Requirements

Course Requirements

To reinforce the value 'life matters most', Vale has implemented a Contractor Site Entry Orientation, which is a graduated process to gain access to areas within a plant or site where work activity takes place.

Tier 1 – Knowledgeable in fundamental operational controls commute Sudbury Operations.

Tier 2 – Can access a complex property but canraccess specific plants.

Tier 3 – Allows access to specific plants within a complex.



2.3 Course Requirements

Course Requirements

The Tier 2 module provided general information with regards to plant access and traffic plan requirements to enter a defined area within Sudbury Operations.

The Tier 3 module provides specific instructions for individual plant sites.

To participate in this Tier 3 Module, you will need the following:

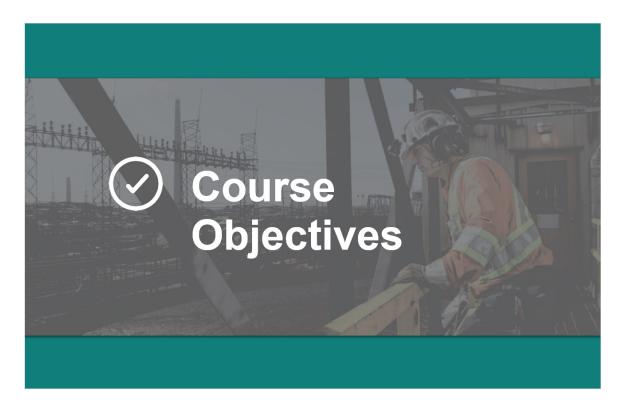
- Lenel Card
- •Tier 1 Vale Operational Controls
- •Applicable Tier 2 Vale Orientation

Orientation Map:

Sudbury Operations



2.4 Untitled Slide



2.5 Course Objectives

Course Objectives

Upon completion of this module you be able to:

- Understand Plant Entry Procedure
- ✓ Gate access
- ✓ Traffic Management / right of ways
- ✓ Sign In / out Protocol at First Aid Office



2.6 Course Objectives Cont.

Course Objectives

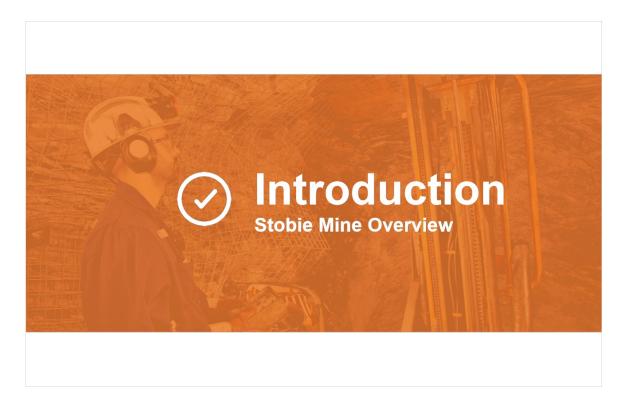
- Identify Site Specific Hazards and methods of controls
- ✓ Heavy Equipment
- ✓ Haulage Trucks
- ✓ Railway crossing / Train & Rail Cars
- ✓ Open Pits
- ✓ Water Ways / Dams / Pumping Station
- ✓ Old Workings and Buildings

2.7 Course Objectives Cont.

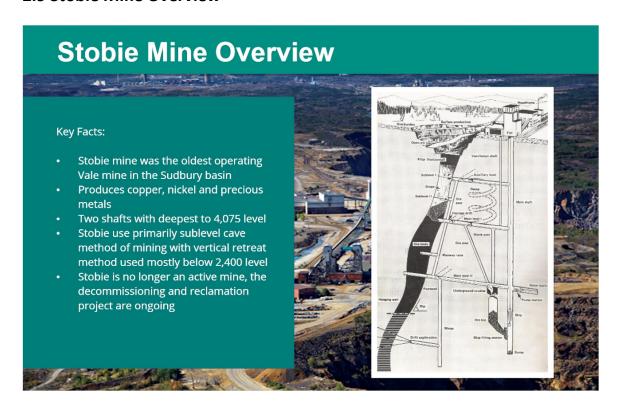
Course Objectives

- Follow Procedures in the event of:
 - ✓ Equipment Damage
 - ✓ Personal Injury
 - ✓ Process Upset / Emergency Preparedness
 - ✓ Complete Plant Exit Procedure Checklist

2.8 Introduction



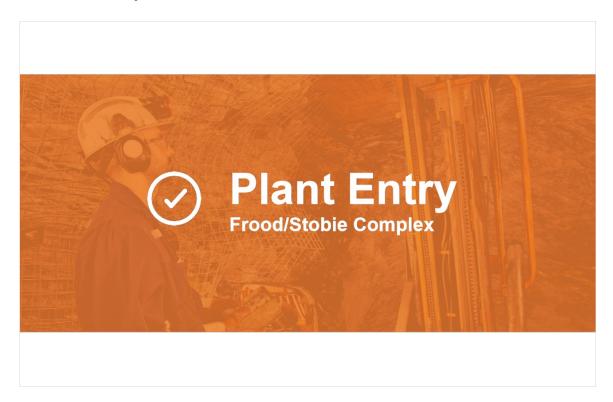
2.9 Stobie Mine Overview



2.10 Stobie Mine Overview



2.11 Plant Entry



2.12 Plant Access

Plant Access

Frood/Stobie Complex is accessed from the intersection of Frood and Lassalle extension.







2.13 Plant Access via Main Gate

Plant Access via Main Gate



The Speed limit on access road (main) is 60 km/hr. The Speed limit on property roads is 40 km/hr and 25km/hr near buildings and shop areas. Obey all posted signs.

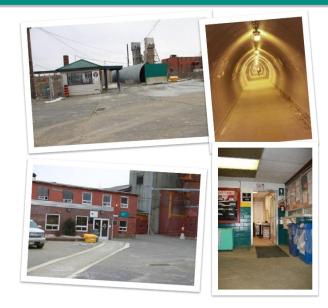
To gain access to Frood/Stobie property, Authorized visitors can enter with the Lenel Card or call First Aid for authorization. A direct line intercom is located at the new gate.

Visitors must immediately report to First Aid to sign-in.



2.14 Plant Access via Employee Parking Lot

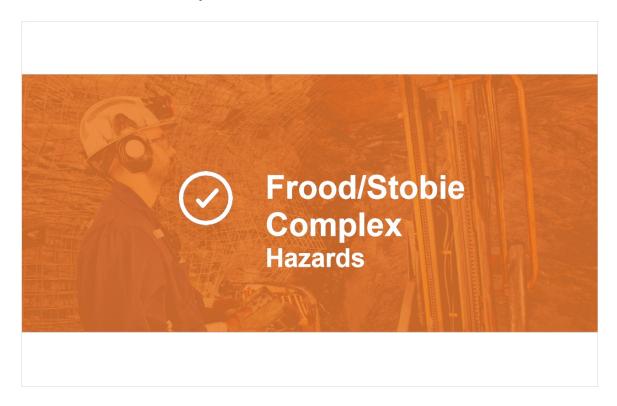
Plant Access via Employee Parking Lot



Entering from the employee parking lot, walk trough the tunnel then keep right and enter the complex door down the hallway, turn right. First aid is located next to the warm room.

Note; this parking lot is closed during winter months

2.15 Frood/Stobie Complex Hazards



2.16 Site Specific Hazards

Site Specific Hazards

Using the tools that you learned in Tier 1 Orientation, ensure to use operation controls to mitigate risk associated to the identified hazards.



Be Aware

Be aware of my surroundings and the risks around me.



Follow Policies & Procedures

Our internal policies and procedures guide us in doing our work in a manner that reduces risk.

The following section lists identified hazards that may be encountered in the work you're doing. Knowing if these hazards apply to your work can be found through:

- •Vale Contact Person
- •PHA/PHR (or other Risk Assessment Tools)
- •SLAM

2.17 Stobie Site Specific Hazards

Stobie Site Specific Hazards

Mobile Equipment



Mobile Equipment present a high risk hazard of collision with a vehicle or pedestrian. During travel at Frood / Stobie Complex , you'll require to cross multiple areas where equipment could potentially be operating.







2.18 Speed Limits and Signs

Speed Limits and Signs

The speed limit for un-posted roadways on the property is 25 km/hr



The normal speed limit on the mine road is 60km/hr

- •Absolutely **No Passing** of vehicles on the property
- •Remember provincial law regarding the use of cell phones while driving
- •On Vale property, Mobile Equipment has the right of way

2.19 Rail Traffic & Crossings

Rail Traffic & Crossings



Be sure to check both ways & making sure its safe to cross

Whether posted or not, stop at all railway crossings, look both ways, then proceed if safe to do so

Do not park within 12 feet of railway track

2.20 Confined Spaces

Confined Spaces

Be aware of Confined Spaces



A confined space is anywhere that is:

- a fully OR partially enclosed space;
- that is <u>not</u> designed and constructed for continuous human occupancy; and
- in which atmospheric hazards may occur because of its construction, location, contents, or because of work that is done in it.

Vale authorization, a confined space work procedure, and a rescue plan must be followed to work within a confined space.

3. Equipment Damage

3.1 Untitled Slide

Equipment Damage

3.2 Equipment Damage

Equipment Damage

An incident is an event that results in loss or harm to personal (injury/illness), environmental, asset, or equipment.

Even with "near misses", all workers, including Offsite Personnel are encouraged to initiate and/or participate. Intent is to prevent recurrences and reduce or eliminate any further injuries.

Get in touch with your Vale Contact Person for any information required on the Incident/Accident Investigation system.



4. Personal Injury

4.1 Personal Injury

Personal Injury

4.2 Personal Injury Reporting

Personal Injury Reporting

In the case of personal injury contact your Supervisor or contact person and report immediately to First Aid. In the event you cannot physically report to First Aid, contact first aid at 3282 or channel 1 on your radio for emergency assistance. Note: If you are calling any Vale number from a Vale phone only the last 4 digits are required to be dialed.

4.3 Working Alone

Working Alone

Procedure for being on Working Alone:

- •Request that you be put on the list by verifying with the PSP and providing information location , length of stay with contact information . Ex;(Cell phone)
- ullet If you do not contact PSP within 1:50 hrs the PSP will then attempt to contact you . If PSP cannot reach you they will send person to look for you .

5. Emergency Preparedness

5.1 Emergency Preparedness

Emergency Preparedness

5.2 Emergency Preparedness Procedures

Emergency Preparedness Procedures

The Mines Tier 2 Orientation provides guidance on the application of Emergency Preparedness including initiating and following an emergency response plan.

The following is a general overview of how to respond to an emergency at Frood / Stobie Mine.

It is necessary that you familiarize yourself with the fire procedure(s) that apply to your specific area(s) of work at Stobie Site. Your Supervisor or plant contact will review this with you.



5.3 Emergency Reporting

Emergency Reporting

To report any emergency at Frood / Stobie Complex, notify your supervisor or plant contact immediately or contact the First Aid (PSP).

Here is the Frood / Stobie Emergency Number, as well as the radio channel in use.

Stobie Site
Emergency Number
First Aid (PSP)......705-525-3282

5.4 Emergency Notification - Surface Alarm

Emergency Notification - Surface Alarm

Fire Evacuation - OUTVAC

Continuous Tone

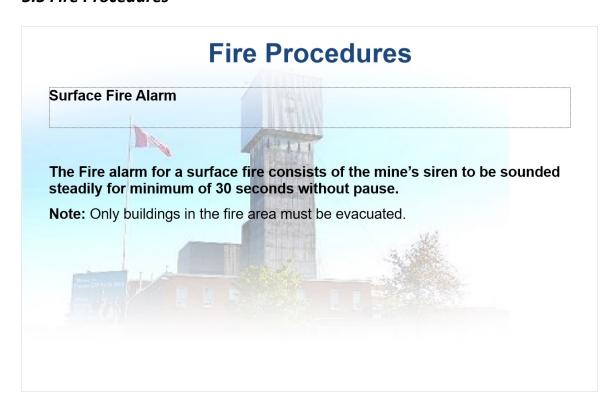


Leave the building by the nearest exit.



Alarm testing is conducted each Monday at 1:30 pm. Report any malfunctions immediately to your Supervisor to ensure that it is corrected in a timely manner.

5.5 Fire Procedures



5.6 Surface Fire Assembly Areas

Surface Fire Assembly Areas







The Safe Assembly Area at Frood / Stobie Complex are designated with a sign displaying three people with white lettering

They are located by the walkway tunnel to the parking lot in front of Stobie Offices and in front of Frood #3 Shaft Shops

When you arrive at the assembly area a designated person will account and document that you're there.

5.7 OUTVAC – Frood / Stobie Surface Fire Procedure

OUTVAC – Frood / Stobie Surface Fire Procedure

If the fire is out of control immediately notify the Stobie PSP Office at 3282



Give the following information:

- •Name and phone number
- Location and extent of fire
- •Any other useful information

Retreat from the fire area sounding any available alarms

Notify available supervision and proceed to the designated evacuation area notifying any other persons along the way.

5.8 OUTVAC - Surface Evacuation Area

OUTVAC - Surface Evacuation Area

The Fire alarm for a surface fire consists of continuous alarm.

Note: Only buildings in the fire area must be evacuated.





The Safe Assembly Areas at Vale are designated with a blue sign displaying three people with white lettering

It is located by the walkway tunnel to the parking lot and the main gate.

When you arrive at the assembly area a designated person will account and document that you're there.

Under no circumstances is an employee to leave the property without reporting to the person in charge of the assembly area.

5.9 INVAC - Surface Indoor Assembly Area

INVAC – Surface Indoor Assembly Area



The designated Invac assembly areas at Stobie is in the amphitheater. All employees on surface will proceed immediately to the assembly areas to await further instructions. PLEASE, do not leave the assembly area until instructed to do so, or until the all clear is given.

Note: Frood/Stobie complex does not have a intermittent alarm. In the event a level III emergency occurs, designated emergency response personnel will dispatched to notify Employees and visitor to report to the *Invac* assembly area. Designated guards will be posted at all entrances.

6. Plant Exit

6.1 Plant Exit

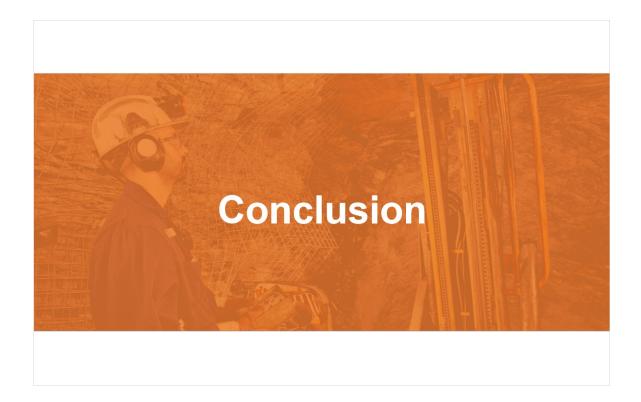
Plant Exit

6.2 Untitled Slide

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 the safety to you and 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 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?
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 First Aid and/or other designated areas



6.4 Conclusion

Conclusion

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

- · The mining plant layout and boundaries
- The entry requirements
- The high level general hazards and controls with regards to:
- ✓ Water Ways / Dams / Pumping Station
- ✓ Traffic Management
- ✓ Old workings
- ✓ Mobile equipment
- ✓ Railway crossing / Train & Rail Cars

6.5 Conclusion

Conclusion

This Orientation provided information to access Frood /
Stobie Complex. In order to feel comfortable with the area,
you should arrange a field visit with your Vale Contact
Person or direct Supervisor to review hazards and controls
specific to your work area(s).

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.

6.6 Start The Module Quiz

