Emergency Preparedness Www.MinEx.org.nz MinEx

What is an Emergency?



An emergency is an unplanned or unexpected event that requires immediate action to protect the health, safety and well-being of people.

www.MinEx.org.nz

MinEx

2

1

Types of Emergencies

- Conveyor entrapment
- Vehicle accident
- · Outbreak of fire
- Accidental explosions
- Collapse of structure
- Dam collapse
- · Water inrush
- Chemical spillTrespasser injury
- Collapse of the quarry
- · Accident to person working alone







4

What does legislation require

Health and Safety at Work Act 2015

- Clause 44 Duty of Officers
 - 4(d) to ensure that the PCBU has appropriate processes for receiving and considering information regarding incidents, hazards, and risks and for responding in a timely way to that information:
- Clause 55 Duty to preserve sites
- Clause 56 Duty to notify notifiable event
- Clause 57 Requirement to keep records

www.MinEx.org.nz



5

What does legislation require

HSAW Mining Operations and Quarrying Operations Regulations 2016 (as amended 2022)

- · Clause 56 Contents of HSMS
- Clause 104 Consultation with Emergency services
- Clause 105 Emergency Management control plan
- Clause 106 Testing of Emergency Management control plan
- Clause 125 Treatment and Transport of sick and injured workers

www.MinEx.org.nz



Emergency Management Control Plan (EMP)

- the people or positions at the site that will have responsibilities in relation to emergencies
- · the events that trigger the activation of the plan
- · the use of communication systems in emergencies
- the giving of timely notice, information, and warnings about emergencies to anyone potentially affected by an emergency at the site
- measures to be taken to isolate an area of the site affected by an emergency
- the availability of emergancy services to respond to an emergency at the site
- the means to locate and account for people at the site in the event of an emergency
- the evacuation of the site in an emergency, if required
- first-aid arrangements at the site, including first-aid equipment, facilities, and services and the workers who
 are qualified to provide first aid

www.MinEx.org.nz



7

Emergency Management Control Plan (EMP)

In complying with their obligations under the legislation, a PCBU must have regard to all relevant matters, including:

- the nature of the work being carried out at the workplace;
- the nature of the hazards at the workplace:
- the size and location of the workplace:
- the number and composition of the workforce at the workplace.



www.MinEx.org.nz



8

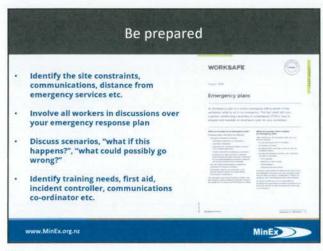
Composition of the workforce

- · Keep it simple Average industry reading age of 10-11 year old
- · Language may be an issue (EASL)
- There may be literacy issues
- · Concentration/interest span



www.MinEx.org.nz











Training • Ensure all workers are trained in emergency plan and procedures • Ensure regular refresher training and testing of emergency plan • Ensure contractors and visitors are aware of emergency procedures that may impact on them • Ensure inductions include critical elements of the emergency plan



What does legislation require

Clause 106 - Testing of Emergency Management control plan

- Regularly tested using practice drills
- Involve emergency services
- Adequate training
- Adequate resources



www.MinEx.org.nz



16

Lone workers and small sites

- Nobody to summon emergency services
- · Poor mobile phone service
- Remoteness may mean additional time for emergency services to arrive
- · Loss of communication





www.MinEx.org.nz



17

Working alone "must haves" - All necessary PPE (GPS tracker, emergency alarm activation) - Regular check-ins - Overtime alerting (automated) - Emergency alerting (lone worker alarm) - GPS location tracking - Response procedures

www.MinEx.org.nz



NZ Red Cross – First Aid and emergency app

MinEx

19

www.MinEx.org.nz

Be prepared Identify the site constraints, communications, distance from emergency services etc. Involve all workers in discussions over your emergency response plan. What could go wrong? Allocate tasks including alternates - Who needs to do what, incident controller, communications coordinator etc. Identify training needs, first aid, resources needed, etc. Training and practice of the plan.

20

