Explosives
Doc No: CMR WHS STD 008

Table of Contents

1. Introduction

1.1 Purpose

The purpose of this standard is to provide guidance on how to:

- Manage the risks associated with working at heights. This is supported by the Explosives Bow Tie Risk Assessment.

- Implement the Explosives Core Mandatory Requirement (CMR). This is supported by CMR FRM 008a Explosives Critical Controls.

1.2 Scope

In Scope - All MPC Kinetic controlled work sites relating to drill and blast and wireline operations.

Out of Scope – Works outside of MPC Kinetic control.

1.3 Authorised User

All Field Employees and Contractors who are licenced to handle, detonate, or transport explosives.

2. Critical Control Implementation

2.1 Manage the safe detonation of explosives

2.1.1 Develop safe fire procedures

The denotation of explosives must be performed using approved safe fire procedures.

As a minimum, the procedures must contain:

- The steps to safely do the work

- Hazards specific to the job

- Roles and responsibilities

- Training requirements

- Security of explosive materials.

2.1.2 Minimum licencing and training requirements

All persons must be licenced and trained to handle explosives.

The licensing requirements must be confirmed based on the state legislative requirements.

Licensing requirements will require the persons to be:

- At least 18 years of age

- Have appropriate training

- Have an explosive security clearance check

- RIIBLA205 Store, Handle and Transport Explosives

- Undertake relevant verification of competency assessment.

All handlers of explosives must be trained in the approved safe-fire procedures.

> **NOTE:** Refer to TRN PRO 002 Verification of Competency Procedure.

2.1.3	**Use safety tubes**	safety tubes must be used when:

- Arming explosives

Safety tubes must be designed for the explosive impact.

2.1.4	**Establish exclusion zones**	Exclusion zones must be established by:

- Placing warning signs at all access points

- Setting up barriers to prevent access

- Communicating the exclusion area to the relevant site personnel.

Only authorised personnel may enter the exclusion zone until the "all clear" is given.

2.1.5	**Actions to be taken post-fire**	Upon retrieving explosive devices:

- An inspection must be conducted by an approved handler to make sure all charges have fired

- No one must enter the exclusion zone until the "all clear" signal is given.

2.1.6	**Drill and blast misfire happens**	If a misfire happens, the exclusion area must be maintained.

No attempt must be made to extract explosives from any charged or misfired hole. A new primer must be put in and the hole re-blasted.

No drilling or digging must be done until all misfired holes have been detonated.

The Authorised Blaster must determine when the area is safe.

2.1.7	**Wireline misfire happens**	If a misfire happens, the exclusion area must be maintained.

Explosives are brought to surface.

Visual verification of fire or misfire must be undertaken.

Misfired devices need to be handled as per approved safe fire procedures.

Authorised handlers will determine when the area is safe.

2.2 Where to procure explosive materials

2.2.1	**Procuring explosive materials**	When procuring explosive materials, you must confirm they come from a licensed supplier.

2.3 Requirements for storing explosives

2.3.1 **Storage container requirements**

Containers used to store explosives must:

- Meet the relevant design standard
- Be labelled according to the legislative requirements
- Be locked when not in use.

The keys for the containers must be kept in a secure location.

Explosives and denotators must be stored in separate containers.

2.3.2 **Separate explosives from incompatible materials**

The design and layout of storage facilities must separate explosive materials from:

- Incompatible hazardous materials
- Potential ignition sources.

2.4 Manage the transportation of explosives

2.4.1 **Transport vehicle requirements**

Vehicle requirements for transporting explosives, include:

- All vehicles must have warning signage attached according to the legislative requirements
- The quantities of explosives must not exceed the legislative limits.

2.4.2 **Driver licencing requirements**

All Drivers transporting explosives must be licenced.

The licensing requirements must be confirmed based on:

- The State legislative requirements
- The type and quantity of explosives being transported.

Drivers must always have their license available when transporting explosive materials.

2.5 Emergency Response Requirements

2.5.1 **Develop procedures**

Emergency response procedures must be developed based on the risks associated with the work activity.

The potential emergencies related to explosives, include:

- Fire
- Explosion.

2.5.2	**Implement procedures**	Emergency response procedures must be implemented on-site. This includes:

- Communicating procedures to the relevant site personnel
- Confirming or arranging specific emergency response training
- Arranging relevant emergency equipment.

The emergency procedures must be checked they are working effectively. This includes:

- Undertaking drills or scenario testing
- Conducting regular inspections.