# Explosives template

# Blast plan – general purpose

This template is designed to be used in conjunction with Resources Safety’s *Blast plan preparation, including mining operations – guide* to assist with:

* the preparation of a blast plan that complies with Regulation 130(1)(a)
* record of use of an explosive as required by Regulation 134(2)

of the Dangerous Goods Safety (Explosives) Regulations 2007 (Explosives Regulations).

It is the responsibility of the persons listed in regulation 129(1) of the Explosives Regulations and the shotfirer to ensure the blast plan and record of the blast comply with the legislation.

Use of this template is not mandatory; however, the blast plan and record must sufficiently address the elements as outlined.

## Contents

[Section 1: Blast plan 3](#_Toc373844932)

[Part A: Brief blast summary 3](#_Toc373844933)

[Part B: Details of key appointments and responsibilities for the blast 3](#_Toc373844934)

[Part C: Location of blast and permits / licences 4](#_Toc373844935)

[Part D: Blast risk management 5](#_Toc373844936)

[Part E: Security arrangements / warning details 6](#_Toc373844937)

[Part F: Initiation method 6](#_Toc373844938)

[Part G: Explosives used / charging details 7](#_Toc373844939)

[Part H: Blast design 7](#_Toc373844940)

[Part I: Signatures 7](#_Toc373844941)

[Section 2: Record of use of explosives 8](#_Toc373844942)

[Part J: Weather conditions at the time of the blast 8](#_Toc373844943)

[Part K: Environmental monitoring equipment 8](#_Toc373844944)

[Part L: Post-blast analysis 9](#_Toc373844945)

[Part M: Blast layout plan 10](#_Toc373844946)

[Part N: Signature of shotfirer 10](#_Toc373844947)

# Section 1: Blast plan

(TO BE COMPLETED **BEFORE** AN EXPLOSIVE IS USED)

## Part A: Brief blast summary

| Blast date |  |
| --- | --- |
| Blast time |  |
| Address where blast conducted |  |
| Brief description of blast |  |
| Objectives for the blast |  |

## Part B: Details of key appointments and responsibilities for the blast

**Details of blast plan author and category**

| Name and category |  |
| --- | --- |
| Company name and address |  |
| Position |  |
| Contact details | Ph: | Fax: | Mobile: |
| Email |  |

**Details of person responsible for the blast, including safety and security (if different from above)**

| Name |  |
| --- | --- |
| Position |  |
| Company name and address |  |
| Contact details | Ph: | Fax: | Mobile: |
| Email |  |

**Details of person who gave approval to use explosives (if different from above)**

| Name |  |
| --- | --- |
| Position |  |
| Company name and address |  |
| Contact details | Ph: | Fax: | Mobile: |
| Email |  |

**Details of shotfirer (if different from above)**

| Name |  |
| --- | --- |
| Position |  |
| Company name and address |  |
| Contact details | Ph: | Fax: | Mobile: |
| Email |  |

**Details of any other key people involved in the blast and their responsibilities**

| Name |  |
| --- | --- |
| Position |  |
| Responsibility |  |
| Company name and address |  |
| Contact details | Ph: | Fax: | Mobile: |
| Email |  |
| Blast Crew Name |  |
| Security Card No |  | Expiry Date: |
| Blast Crew Name |  |
| Security Card No |  | Expiry Date: |

## Part C: Location of blast and permits / licences

| Blast location |  |
| --- | --- |
| Exclusion zone (metres) |  |
| Distance (metres) to | Nearest dwelling: | Nearest structure: |
|  | Nearest personnel: | Nearest public access: |
|  | Nearest services (e.g. water / electricity): |
| Do you have required blast permits / licences | YES / NO |
| Provide details (including town blast permit where required) |  |
| Provide details of reports, drawings and records consulted |  |

## Part D: Blast risk management

| Identified risk | Risk reduction methods | Details to reduce risks to an acceptable level |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Part E: Security arrangements / warning details

| Describe security procedures for the site and the blast, including explosives |  |
| --- | --- |
| Detail communication system(s) between people involved or in the vicinity of the blast |  |
| Advanced warning | YES / NO  | N/A (provide details):  |
| Audible warning | YES / NO  | N/A (provide details):  |
| Sentries period | YES / NO  | N/A (provide details) (including number of sentries):  |
| Signs | YES / NO  | N/A (provide details): |
| Traffic management | YES / NO  | N/A (provide details): |

## Part F: Initiation method

| Safety fuse |  |
| --- | --- |
| Burn time (per metre) |  | Length: |
| Electrical |  |
| Continuity | YES / NO | Resistance: |
| Signal tube |  |
| Electronic |  | Continuity: YES / NO |
| Delays | YES / NO |
| Type |  | Number: |
| Initiation equipment exploder |  |

## Part G: Explosives used / charging details

| Premier (type) |  |
| --- | --- |
| Detonating cord |  |
| Quantity of initiator |  |
| Quantity of packaged type |  |
| Quantity of bulk type |  |
| Total quantity of explosives used |  |
| Effective charge mass per delay (MIC) |  | Powder Factor: |
| Do you have drilling Procedures | YES / NO  | N/A (provide details):  |
| Do you have explosive loading and charging procedures | YES / NO  | N/A (provide details):  |
| Do you have explosive storage and handling procedures | YES / NO  | N/A (provide details):  |

## Part H: Blast design

| Type of ground |  |
| --- | --- |
| Number of holes |  | Diameter of holes: |
| NEQ per hole |  | Burden: |
| Spacing of hole |  | Depth of hole: |
| Height of stemming |  | Type of stemming: |
| Delay per hole |  | Number of rows: |
| Orientation |  | Decking: YES / NO |
| Blast mat / cover over site | YES / NO  | N/A (provide details):  |

## Part I: Signatures

| Blast plan author | Shotfirer | Approver of the plan |
| --- | --- | --- |
| Name: | Name: | Name: |
| Signature: | Signature: | Signature: |
| Date: | Date: | Date: |

# Section 2: Record of use of explosives

(TO BE COMPLETED **BY THE SHOTFIRER WITHIN 7 DAYS** AFTER ANY USE OF EXPLOSIVE)

## Part J: Weather conditions at the time of the blast

| Weather | Temperature: | Wind direction: | Wind speed: |
| --- | --- | --- | --- |
| Dry □ Overcast □ Wet □ Sunny □ Sultry □ Thunder / lightning □ Windy □ |
| Describe how weather conditions affected blasting operation, including cancellation of the blast (if required) |  |

## Part K: Environmental monitoring equipment

| Monitoring equipment used | Type: | Serial no: | Location: |
| --- | --- | --- | --- |
| Monitoring equipment used | Type: | Serial no: | Location: |
| Details of measurements recorded during the blast |  |
| Describe environmental considerations for airblast overpressure, ground vibration |  |

## Part L: Post-blast analysis

| Misfire | YES / NO  | N/A (provide details):  |
| --- | --- | --- |
| Do you have misfire management system | YES / NO  | N/A (provide details):  |
| Flyrock / fly | YES / NO  | N/A (provide details):  |
| Area safe | YES / NO  | N/A (provide details):  |
| Do you have post-blast assessment and inspection | YES / NO  | N/A (provide details):  |
| Incidents / complaints | YES / NO  | N/A (provide details):  |
| Stock reconciliation details |  |
| Was blast satisfactory (Did it meet the objectives?) | YES / NO  | N/A (provide details):  |
| Proposed changes to future blasts (Include any proposed modifications for future shots) |  |
| Post-blast comments |  |

## Part M: Blast layout plan

 (INCLUDE MAGNETIC NORTH, HOLE LAYOUT / SPACING, DELAYS, INITIATION POINT, FIRING LINES)

|  |
| --- |
|  |

## Part N: Signature of shotfirer

| Name: |
| --- |
| Signature: |
| Date: |