December 2007 revision
SAMRASS
South African Mines Reportable Accidents Statistics System

Codebook for mines

Directorate: Technical Services
Department of Mineral Resources
Private Bag X59
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Introduction

A good official statistics system is characterised by its ability to elucidate issues, not just to monitor them and by its ability to evolve in response to needs. Such a system must have a high level of public credibility, since few in society can verify national statistics and therefore must have to rely on the public reputation of the agency providing the statistics.

Ivan Fellegi, Chief Statistician of Canada

Keeping Fellegi’s statement in mind, the Department of Minerals and Energy (DME), has revisited the entire system of accident reporting and recordkeeping in its SAMRASS system, the South African Mines Reportable Accidents Statistics System, a sub-set of the entire DME database.

In order to produce a good quality statistical product, in accordance with the needs and requirements of the various users, a tripartite working group consisting of representatives from the state (DME), labour (mine worker unions), and the employer sector (Chamber of Mines), have revised the codebook, subject to the conditions embodied in the Mine Health and Safety Act and relevant regulations. This revision process will in future be continuously developed and adapted/assessed against stakeholder and community needs.

The following aspects were taken into account:

- **Simplification**
  An important consideration in the revision process was to design the reporting system without adding to the workload for the mines. With this in mind, codes which are consistent with industry reporting to Rand Mutual Assurance have been incorporated with SAMRASS reporting.

- **Content**
  The choice and definition of variables to be reported, statistical measures and categories and groups for which statistics are reported, were revisited.
  The new system has also been designed to conform to international standards and to facilitate comparison with other statistics.

- **Accuracy and Consistency**
  Coding structures should be consistent with previous code sets so that history is not lost and should be readily understood by the persons completing the prescribed forms.

- **Accessibility**
  Statistics will be published (on-line and in hard copy), and disseminated in formats that make them easy to understand and easy to use. Graphs, diagrams and explanatory notes will be used whenever possible.

- **Uses**
  Statistics to be presented illustrating the situation and trends within the different mining sectors.

- **Common Vocabulary**
  The intention of this Codebook is to ensure that all mines make use of the same terminology regarding accidents and accident reporting.
Instructions for the completion of SAMRASS Forms i.r.o. accidents or dangerous occurrences.

The correct description of accidents or dangerous occurrences is of utmost importance if the statistics produced from these reports are to be meaningful. The statistical summary should result in a profile of the various types of accidents and contribute to meaningful information which highlight trends within the industry and focus specific research, hazard identification, risk assessment, safety management, and training activities.

In the rest of this document wherever the term “Accident” is used, read it to include the term “Dangerous Occurrence” as well. An accident is where a person was injured or killed and a dangerous occurrence is where no injury took place.

Use the appropriate coding in Sections B 12 for accidents and B13 for dangerous occurrences.

The regulations contained in Chapter 23 of the Mine Health and Safety Act prescribes the following accidents or dangerous occurrences to be reported to the Mine Health and Safety Inspectorate of the DME on the prescribed forms (see addenda to this Codebook):

CHAPTER 23

ACCIDENTS AND DANGEROUS OCCURRENCES

ACCIDENTS TO BE REPORTED

23.1 The employer must report to the Principal Inspector of Mines in the manner prescribed in this chapter any accident at the mine that results in:

(a) the death of any employee;

(b) an injury, to any employee, likely to be fatal;
(c) unconsciousness, incapacitation from heatstroke or heat exhaustion, oxygen deficiency, the inhalation of fumes or poisonous gas, or electric shock or electric burn accidents of or by any employee and which is not reportable in terms of paragraph (d).

(d) an injury which either incapacitates the injured employee from performing that employee’s normal or a similar occupation for a period totaling 14 days or more, or which causes the injured employee to suffer the loss of a joint, or a part of a joint, or sustain a permanent disability,

(e) an injury, other than injuries referred to in paragraph (d), which incapacitates the injured employee from performing that employee’s normal or a similar occupation on the next calendar day.

23.2 (1) An accident referred to in paragraph (a), (b) or (c) of regulation 23.1 must be reported immediately by the quickest means available and must be confirmed without delay on Forms SAMRASS 1 and 2 prescribed in Chapter 21.

23.2 (2) An accident referred to in paragraph (d) of regulation 23.1 must, after the accident becomes reportable, be reported within three days on Forms SAMRASS 1 and 2 prescribed in Chapter 21.

23.2 (3) The Form SAMRASS 9 must be submitted on a monthly basis for all persons not having returned to work at the time of submitting SAMRASS 2 on a monthly basis.

23.2 (4) An accident referred to in paragraph (e) of regulation 23.1 must be reported without delay on a monthly basis, on Form SAMRASS 4 prescribed in Chapter 21
23.3 (1) Where the death of an employee, referred to in regulation 23.1(a) is related to a rockburst or fall of ground, the duly completed Form SAMRASS 3, prescribed in Chapter 21, for such rockburst or fall of ground must be forwarded by the employer to the Principal Inspector of Mines within 14 days of such death.

23.3 (2) When an injury results in the death of the injured employee after the report in terms of regulation 23.1 (b), (c), (d) or (e) has been given or when a slight injury, which was not reportable, results in the death of the injured employee, or when general sepsis or tetanus develops as a result of an injury, the employer must immediately report it to the Principal Inspector of Mines and without delay submit amended Form SAMRASS 1 prescribed in Chapter 21.

23.3. (3) Where the injury of a person referred to in regulation 23 (1) or a dangerous occurrence referred to in regulation 23.4 (o), is related to the use of explosives, in addition to Form SAMRASS 1, the duly completed Form SAMRASS 5, prescribed in Chapter 21, must be forwarded by the employer to the Principal Inspector of Mines within 14 days of such occurrence.

23.3 (4) Where the injury of a person referred to in regulation 23 (1) or a dangerous occurrence referred to in regulation 23.4 (f) is related to fires, in addition to Form SAMRASS 1, the duly completed Form SAMRASS 6, prescribed in Chapter 21, must be forwarded by the employer to the Principal Inspector of Mines within 14 days of such occurrence.

23.3 (5) Where the injury of a person referred to in regulation 23 (1) or a dangerous occurrence referred to in regulation 23.4 (b) is related to a subsidence in a coal mine, in addition to Form SAMRASS 1, the duly completed Form SAMRASS 7, prescribed in Chapter 21, must be forwarded by the employer to the Principle Inspector of Mines within 14 days of such occurrence.
23.3 (6) Where the injury of a person referred to in regulation 23 (1) is related to heat stroke or heat exhaustion, in addition to Form SAMRASS 1, the duly completed Form SAMRASS 8, prescribed in Chapter 21, must be forwarded by the employer to the Principal Inspector of Mines within 14 days of such occurrence.

DANGEROUS OCCURRENCES TO BE REPORTED

23.4 The employer must report to the Principal Inspector of Mines in the manner prescribed in this Chapter any of the following dangerous occurrences at the mine-

(a) ROCKBURSTS AND FALLS OF GROUND

An extensive rockburst or fall of ground causing the following damage underground –

(i) At least 10 linear metres of working face has been severely damaged and choked and will require re-establishment and re-supporting, or be abandoned;

(ii) At least 25m² of working area has been severely damaged and choked rendering support units ineffectual and will have to be re-established and re-supported or be abandoned;

(iii) At least 10 linear metres of gully has been restricted with rock clearly recently displaced from the hanging wall and gully sidewalls;

(iv) At least 10 linear metres continuous or 30 linear metres cumulative of access ways of tunnel or travelling way has been severely damaged and will require rehabilitation or be abandoned;
(v) At least 10 m$^2$ of roof or 5m$^3$ of rock has been displaced from the roof of the mining cavity or excavation;

(vi) At least 10m$^3$ of rock has been freshly displaced from pillars or tunnel sidewalls.

(b) CAVING

Any unplanned or uncontrolled caving, side wall or slope failure or subsidence in the ground or workings, causing damage to the surface, which may pose a significant risk to the safety of persons at a mine.

(c) FLOW OF BROKEN ROCK

Any unplanned or uncontrolled flow of broken rock, mud or slimes in the workings of a mine which may pose a significant risk to the safety of persons at a mine.

(d) BREAKDOWN OF MAIN VENTILATION FAN

Breakdown of any main ventilation fan.

(e) POWER FAILURE

Any power failure occurring in the underground workings of a mine, which poses a significant risk to the health, or safety of persons at a mine.

(f) FIRES AND EXPLOSIONS

Any ignition or explosion of gas or dust, or any fire related to mining activities or any indication or recrudescence of fire or spontaneous combustion at or in a mine.
(g) FLAMMABLE GAS

The presence of flammable gas exceeding one comma four parts per hundred by volume in the general atmosphere at a mine, or any portion of a mine:

(i) if such flammable gas is detected for the first time; or

(ii) the first time such flammable gas is again detected after not having been detected therein for a continuous period of three months.

(h) WINDING PLANTS

(i) Running out of control of winding-engine, winding drum or conveyance;

(ii) Fracture or failure of any essential part of the winding-engine, fracture or failure of any safety device used in connection with the winding equipment;

(iii) Fracture, failure or serious distortion of winding rope, fracture, failure or serious distortion of any connection between the winding rope and the drum or between the winding rope and the conveyance and any other load suspended Form or attached to such rope; fracture, failure or failure or serious distortion of any connection between conveyances or between a conveyance and any suspended or attached load, fracture of guide rope or its connections, fracture of balance or tail rope or its connections;

(iv) Fracture or failure of winding or balance sheave; fracture or failure of any essential part of the headgear or other sheave support;

(v) Jamming or accidental overturning of conveyance; conveyance or its load fouling shaft equipment; jamming of crosshead;

(vi) Derailing of conveyance;

(vii) Conveyance, bridle, frame or crosshead accidentally leaving guides;
(viii) Fracture or failure of the braking system or of any critical parts thereof;

(ix) Failure to activate when required of any safety catches and/or arresting devices or activation of any safety catches and/or arresting devices when not required;

(x) Failure to activate when required of any overwinding prevention device or activation of such device when not required;

(xi) Any overwind or over-run of the conveyance to an extent which may have endangered persons or may have caused damage to the winding equipment;

(xii) Failure of depth indicator.

(i) LIFTS AND ELEVATORS

(i) Fracture or failure of any essential part of the driving or operating machinery, fracture or failure of any safety device used in connection with lifts or elevators.

(ii) Fracture or distortion of the lift or elevator rope, fracture or failure of attachments of such rope.

(iii) Fracture or failure of any sheave or of the shaft or shaft bearing of such sheave.

(iv) Jamming of car or counterpoise.

(v) Fracture or failure of braking system or of any critical parts thereof.
(vi) Failure to activate when required of any safety catches and/or arresting devices or activation of any safety catches and/or arresting devices when not required.

(j) **OBJECTS FALLING DOWN SHAFTS**

Any object falling down the shaft or any other incident which necessitates the inspection of the shaft.

(k) **EMERGENCY OR RESCUE PROCEDURES**

(i) Any failure of breathing apparatus whilst deployed.

(ii) The use of emergency escape apparatus, procedures or rescue mechanisms, or the rescue from entrapment, associated with mining or related activities, of any employee.

(l) **SELF PROPELLED MOBILE MACHINERY**

Any self-propelled mobile machine running out of control which may pose significant risk to the safety of persons at a mine.

(m) **BOILERS AND PRESSURE VESSELS**

Fracture or failure of any part of a boiler or safety device of a boiler or pressure vessel which may have endangered persons.

(n) **CHAIRLIFTS**
(i) Fracture or failure of any part or safety device of a chairlift installation which may have endangered persons or may have caused damage to such chairlift installation.

(ii) Fracture or failure of any essential part of the driving machinery.

(iii) Fracture failure or serious distortion of any rope or chain forming part of a chairlift installation.

(o) EXPLOSIVES

(i) Any unauthorised or accidental ignition or detonation of explosives.

(ii) Any exposure of persons to blasting fumes which is not reportable in terms of regulation 23.1.

(iii) Any detonation of explosives which may pose a significant risk to the safety of persons.

23.5 A dangerous occurrence referred to in regulation 23.4 must be reported immediately by the quickest means available and must be confirmed without delay on Form SAMRASS 1 prescribed in Chapter 21.

23.6 Every employer must ensure that a system is in place whereby the employer is informed, as soon as is practicable after its occurrence, of any accident or dangerous occurrence, which is reportable in terms of this Chapter.

23.7 (i) Every employer must keep and maintain a record in which the particulars of all accidents and dangerous occurrences, which are required to be reported in terms of this Chapter, must be recorded without delay.
(ii) The record contemplated in Regulation 23.7(i) in respect of all accidents or dangerous occurrences must be kept and maintained for two years from the time that the accident or dangerous occurrence becomes reportable.
PLACED OF AN ACCIDENT TO BE LEFT UNDISTURBED

10.1(1) When an accident causes the immediate death of any employee, the place where the accident occurred must not, without the consent of the Principal Inspector of Mines, be disturbed or altered before such place has been inspected by an Inspector or any other person authorised under section 49(4) by the Chief Inspector of Mines.

10.1(2) Regulation 10.1(1) does not apply if:

(a) such disturbance or alteration is unavoidable to prevent further accidents, to remove fatalities and injured employees or to rescue employees from danger; or

(b) the discontinuance of work at such place would seriously impede the working of the mine.

10.1(3) Despite regulation 10.1 (1), work may be resumed at the place where the accident occurred if such inspector or other person authorised by the Chief Inspector of Mines fails to inspect the place within three days after notice of the accident has been given.

RIGHT TO ATTEND INSPECTION IN LOCO

10.2 Any employee having a material interest in an accident referred to in paragraph10.1(1) as well as that employee’s representative may attend any inspection in loco conducted by an inspector but such attendance is at their own risk. In case such employee is, by reason of death or the severity of his/her injuries, unable to appoint any representative to attend the inspection in loco, the relatives, or in their absence the fellow employees, of such employee may appoint such representative.
SIGNIFICANT RISK

Section 11 of the Mine Health and Safety Act (MHSA) requires the employer to assess and respond to risk.

11 (1) Every employer must-

a) identify the hazards to health or safety to which employees may be exposed while they are at work;

b) assess the risk to health and safety to which employees may be exposed while they are at work;

c) record the significant hazards identified and risks assessed; and

d) make these records available for inspection by employees.

Section 102 of the MHSA defines the terms hazard and risk as follows:

"Hazard" means a source of or exposure to danger

"risk" means the likelihood that occupational injury or harm to persons will occur

The term "significant" is defined in the Oxford Dictionary as being "noteworthy, of considerable amount or considerable effect or considerable importance"

Several of the dangerous occurrences refer to an incident occurring "which may pose significant risk to the safety of persons at a mine."

It is not possible to legislate the definition of significant risk, as this will invariably differ from mine to mine, commodity to commodity or even operation to operation. It is therefore the duty of every employer to conduct a risk assessment as required in terms of Section 11 of the MHSA to determine the significant risks to the safety of persons at that particular mine.

For example, a runaway vehicle may pose a significant risk to a large opencast mine, but will in all likelihood be an insignificant risk at a small salt mine. Similarly a diamond mine may be exposed to the significant risk of an inrush of water while a small quarry would not be faced with that particular problem. It is often possible that an incident could occur where no persons are present, thereby not posing any risk at all. Under slightly different circumstances such as at a later time, or when persons are nearby, the same incident could occur and persons are injured or exposed to significant risk.

It is therefore the duty of the employer to ensure that he has identified all the hazards on that mine which may pose a significant risk to the health and/or safety of persons at that mine, and to ensure that any dangerous occurrences that occur are reported in terms of this regulation.
SAMRASS 1 FORM
SECTION A: EMPLOYER DETAILS

ITEM 1. NAME OF MINE

Complete the name of the mine as registered with the Mineral Economics of the Department of Minerals and Energy. The name must correlate with the DME Mine Code. (Item 2).

ITEM 2. DME MINE CODE

The four digit code of the mine as assigned by the Mineral Economics, e.g.

Premier Mine  0509

Note: The Mineral Economics (of the Department of Minerals and Energy), allocates numbers to new mines, and also to mines that have amalgamated or unbundled or changed name.

It is imperative that these new numbers are linked to the old numbers in order to ensure the continuity of information. This will ensure that information will not be lost and that comparisons with old data are possible. The Mineral Economics is contactable at the Pretoria office, Tel No. 012 317 8000

ITEM 3. MAIN COMMODITY

The main commodity being produced by the mine.

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</table>
**SAMRASS 1 FORM**

**SECTION B: ACCIDENT OR DANGEROUS OCCURRENCE DETAILS**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | Mine accident or dangerous occurrence number | YEAR | ACC/D.Occ REF NO | SHAFT |
| 1 |   | Y | Y | Y | Y | N | N | N | N | N | S | S |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 | Number of persons killed |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3 | Number of persons totally disabled |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4 | Number of persons injured |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5 | Date of accident or dangerous occurrence (use YYYY/MM/DD format) | Y | Y | Y | Y | M | M | M | M | D | D |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6 | Time of accident or dangerous occurrence |   | H | H | M | M |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7 | Location of accident dangerous occurrence |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8 | Name of working place |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9 | Depth below surface (in metres) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|10 | Section |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|11 | Description of accident or dangerous occurrence in words |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|12 | Accident classification code |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|13 | Dangerous Occurrence classification code |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|14 | Did accident dangerous occurrence occur during normal working hours or overtime? | Normal |   | O/Time |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|15 | Did accident dangerous occurrence happen at normal workplace? | Y | N |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|16 | Average number of persons at work during the previous month | SURF | U/G | O/Cast | SURF MIN | MARINE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ITEM 1. MINE ACCIDENT OR DANGEROUS OCCURRENCE NUMBER**

The number is assigned by indicating the year in which the accident occurred, e.g. 2007 for the first four spaces. The next four spaces are for the sequential numbering of the accident on the mine, e.g. the tenth accident for 2007 will be numbered 0010. The next two spaces are for the shaft number where the accident occurred if applicable, e.g. number 5 shaft will be 05. If there are no shafts on the mine, use 00.

For example, 2007 0010 05.

**NOTE:** In the event of a multiple accident, page one of the form need only be completed once, irrespective of the number of persons killed or injured.
However, a separate SAMRASS 2 form must be completed for each person killed or injured.

ITEM 2. NUMBER OF PERSONS KILLED

The number of persons killed as a direct result of the mining accident.

Excludes the number of persons injured or totally disabled.

NOTE: In the event of a multiple accident, page one of the form need only be completed once, irrespective of the number of persons killed. However, a separate SAMRASS 2 form must be completed for each person killed.

ITEM 3. NUMBER OF PERSONS TOTALLY DISABLED

The number of persons totally disabled as a direct result of the mining accident.

Excludes the number of persons killed or injured.

The following disabilities will classify a person as totally disabled:

• total loss of sight;
• total paralysis;
• injuries resulting in being permanently bedridden;
• any other injury causing permanent total disablement. E.g. loss of two hands or two legs or deafness

NOTE: In the event of a multiple accident, page one of the form need only be completed once, irrespective of the number of persons injured. However, a separate SAMRASS 2 form must be completed for each person disabled.

ITEM 4. NUMBER OF PERSONS INJURED

The number of persons injured as a direct result of the mining accident.

Excludes the number of persons killed or totally disabled.

NOTE: In the event of a multiple accident, page one of the form need only be completed once, irrespective of the number of persons injured. However, a separate SAMRASS 2 form must be completed for each person injured.
ITEM 5. DATE OF ACCIDENT OR DANGEROUS OCCURRENCE

- The date on which the accident or dangerous occurrence occurred;
- the format of the field is: $YYYY-MM-DD$

ITEM 6. TIME OF ACCIDENT OR DANGEROUS OCCURRENCE

The 24 hour system to be used e.g. 13:15.

ITEM 7. LOCATION OF ACCIDENT OR DANGEROUS OCCURRENCE (CLASS OF PLACE)

Working places should be classified into one of the following locations:

<table>
<thead>
<tr>
<th>Code</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Surface Operations</td>
</tr>
<tr>
<td>02</td>
<td>Underground</td>
</tr>
<tr>
<td>03</td>
<td>Opencast</td>
</tr>
<tr>
<td>04</td>
<td>Surface Mining</td>
</tr>
<tr>
<td>05</td>
<td>Aquatic (sea/river)</td>
</tr>
</tbody>
</table>

A working place may occur in one or more of the above locations, e.g. a workshop could be found on surface, underground or even at sea. Similarly, a substation could be found on surface as well as underground. A different code is provided to specify each workplace and location so as to distinguish between the categories of underground, opencast, surface mining and at sea. Each category of working place is further split into detailed working places.

**NOTE:** The section on Plants has been divided into processes e.g. screening, crushing, etc. Commodity is classified elsewhere and will therefore cater for gold crushing or coal treatment etc.

🔍 For an alphabetical listing of places, see alphabetical index at the back of this codebook. (Appendix 12)
Use the full 6-digit code in each instance.

### 01 SURFACE OPERATIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Working Place</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Accommodation</strong></td>
</tr>
<tr>
<td>010101</td>
<td>Hostels</td>
</tr>
<tr>
<td>010102</td>
<td>Hostel kitchens</td>
</tr>
<tr>
<td>010103</td>
<td>Village or married quarters</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Electrical</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010201</td>
<td>Electrical reticulation network e.g. overhead powerlines</td>
</tr>
<tr>
<td>010202</td>
<td>Powerstation</td>
</tr>
<tr>
<td>010203</td>
<td>Substation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Explosives distribution</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010301</td>
<td>Explosives magazine</td>
</tr>
<tr>
<td>010302</td>
<td>Issue room</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Horticultural</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010401</td>
<td>Agricultural land</td>
</tr>
<tr>
<td>010402</td>
<td>Gardens</td>
</tr>
<tr>
<td>010403</td>
<td>Nursery</td>
</tr>
<tr>
<td>010404</td>
<td>Rehabilitation area</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Laboratories other than medical laboratories</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010501</td>
<td>Assay laboratory</td>
</tr>
<tr>
<td>010502</td>
<td>Coal laboratory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Machinery house (mechanical room)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010601</td>
<td>Boiler house/room</td>
</tr>
<tr>
<td>010602</td>
<td>Compressor house/room</td>
</tr>
<tr>
<td>010603</td>
<td>Fanhouse/chamber</td>
</tr>
<tr>
<td>010604</td>
<td>Pump station/chamber</td>
</tr>
<tr>
<td>010605</td>
<td>Winch engine room/chamber</td>
</tr>
<tr>
<td>010606</td>
<td>Winding engine room</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Medical</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010701</td>
<td>Dressing station</td>
</tr>
<tr>
<td>010702</td>
<td>Hospital</td>
</tr>
<tr>
<td>010703</td>
<td>Medical laboratories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>Offices</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>010801</td>
<td>Offices</td>
</tr>
<tr>
<td>010802</td>
<td>Security department</td>
</tr>
</tbody>
</table>
PLANTS

Beneficiation plants

010911 Acid plant
010912 Concentrator
010913 Crushing plant
010914 Milling plant
010915 Pyro metallurgy (heating/smelting/roasting)
010916 Screening
010917 Smelter (platinum)
010918 Treatment plant including washing plants and grease tables

Other Plants:

010921 Refrigeration/chilled ice
010922 Sewerage
010923 Timber treatment plant
010924 Water purification

Recreation facilities

011001 Bar
011002 Playing fields
011003 Swimming pool

Shaft area

011101 Change house
011102 Lamproom
011103 Laundry
011104 Personnel crush

Shaft bank

011201 Inclined shaft bank
011202 Inclined shaft headgear
011203 Loading box
011204 Sinking shaft bank area
011205 Sinking shaft headgear
011206 Vertical shaft bank
011207 Vertical shaft headgear

Storage areas

011301 Backfill dams
011302 Dam or sump
011303 Drawpoint
011304 Salvage yard/scrap yard
011305 Silo or bunker
011306 Slimes dam/residue deposit
011307 Stockpiles
011308 Store or store yard
011309  Timber yard or treatment plant
011310  Waste dump

**Training centre**
011401  Training centre

**Transport systems**
011501  Conveyor discharge point
011502  Conveyor loading point
011503  Conveyor transfer point
011504  Endless rope haulage
011505  Haul road
011506  Hydraulic transfer
011507  Overland conveyor way
011508  Railway line
011509  Road
011510  Siding
011511  Walkway

**Workshop**
011601  Blacksmith shop
011602  Boilermaking or welding shop
011603  Carpenter shop
011604  Drill sharpening shop
011605  Electrical shop
011606  Fitting shop
011607  Foundry
011608  Garage (motor vehicles)
011609  Loco shed or repair bay
011610  Other workshops (not repair bays)
011611  Paint shop
011612  Plumber shop
011613  Service bay
011614  Vehicle maintenance

**Other**
011701  Brick yard\dressing yard
011702  Other
## 02 UNDERGROUND

### Category of Working Place

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Subtype</th>
</tr>
</thead>
<tbody>
<tr>
<td>020101</td>
<td>Bord and pillar</td>
<td>(Conventional)</td>
</tr>
<tr>
<td>020102</td>
<td>Bord and pillar</td>
<td>(Continuous haulage)</td>
</tr>
<tr>
<td>020103</td>
<td>Bord and pillar</td>
<td>(Continuous miner)</td>
</tr>
<tr>
<td>020104</td>
<td>Goaf</td>
<td></td>
</tr>
<tr>
<td>020105</td>
<td>Longwall</td>
<td></td>
</tr>
<tr>
<td>020106</td>
<td>Rib pillar</td>
<td></td>
</tr>
<tr>
<td>020107</td>
<td>Shortwall</td>
<td></td>
</tr>
<tr>
<td>020108</td>
<td>Stoo ping</td>
<td></td>
</tr>
<tr>
<td>020109</td>
<td>Travelling road</td>
<td></td>
</tr>
<tr>
<td>020110</td>
<td>Return airway</td>
<td></td>
</tr>
<tr>
<td>020111</td>
<td>Boxhole or orepass/muckbay</td>
<td></td>
</tr>
<tr>
<td>020112</td>
<td>Centre gully</td>
<td></td>
</tr>
<tr>
<td>020113</td>
<td>Ledging stope</td>
<td></td>
</tr>
<tr>
<td>020114</td>
<td>Stope entrance/travelling way</td>
<td></td>
</tr>
<tr>
<td>020115</td>
<td>Stope reclamation area</td>
<td></td>
</tr>
<tr>
<td>020116</td>
<td>Stope working face</td>
<td></td>
</tr>
<tr>
<td>020117</td>
<td>Stope worked out area</td>
<td></td>
</tr>
<tr>
<td>020118</td>
<td>Strike gully or cutting</td>
<td></td>
</tr>
<tr>
<td>020119</td>
<td>Tip</td>
<td></td>
</tr>
<tr>
<td>020120</td>
<td>Travelling way (stope proper)</td>
<td></td>
</tr>
<tr>
<td>020121</td>
<td>Updip stope</td>
<td></td>
</tr>
<tr>
<td>020122</td>
<td>Cut and fill</td>
<td></td>
</tr>
<tr>
<td>020123</td>
<td>Open stopes</td>
<td></td>
</tr>
<tr>
<td>020124</td>
<td>Block caving/sub-level caving/sub-level stoping</td>
<td></td>
</tr>
<tr>
<td>020125</td>
<td>Waiting place</td>
<td></td>
</tr>
</tbody>
</table>

### Mine development

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020201</td>
<td>Boxhole or orepass</td>
</tr>
<tr>
<td>020202</td>
<td>Crosscut or drawpoint crosscut</td>
</tr>
<tr>
<td>020203</td>
<td>Development or reef drive</td>
</tr>
<tr>
<td>020204</td>
<td>Haulage</td>
</tr>
<tr>
<td>020205</td>
<td>Raise (incl. poleway)</td>
</tr>
<tr>
<td>020206</td>
<td>Raisebore hole (excl. shafts)</td>
</tr>
<tr>
<td>020207</td>
<td>Return airway</td>
</tr>
<tr>
<td>020208</td>
<td>Ringtunnel</td>
</tr>
<tr>
<td>020209</td>
<td>Winze</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>020301</td>
<td>Electrical reticulation network</td>
</tr>
<tr>
<td>020302</td>
<td>Substation</td>
</tr>
</tbody>
</table>
### Machinery room/chamber
- 020401 Compressed air plant
- 020402 Hoist chamber
- 020403 Pumpstation

### Plants
- 020501 Refrigeration/chilled ice
- 020502 Water purification

### Shaft area
- 020601 Boxhole or orepass
- 020602 First aid station
- 020603 Incline shaft travelling way
- 020604 Refuge chamber
- 020605 Shaft station tip
- 020606 Sinking shaft travelling way
- 020607 Vertical shaft travelling way
- 020608 Waiting place
- 020609 Adit

### Shaft
- 020701 Headgear tipping point (vertical/inclined)
  - 020702 Inclined shaft bank area
  - 020703 Inclined shaft
  - 020704 Inclined shaft headgear
  - 020705 Inclined shaft loading box
  - 020706 Loading station
  - 020707 Raise borer (shaft)
  - 020708 Shaft station
  - 020709 Sinking shaft
  - 020710 Sinking shaft bank area
  - 020711 Sinking shaft bottom
  - 020712 Sinking shaft headgear
  - 020713 Sinking shaft loading box
  - 020714 Sinking stage
  - 020715 Vertical shaft
  - 020716 Vertical shaft bank area
  - 020717 Vertical shaft bottom
  - 020718 Vertical shaft headgear
  - 020719 Vertical shaft loading box
  - 020720 Cage/skip/conveyance

### Storage areas
- 020801 Backfill dams
- 020802 Dam or sump
- 020803 Explosives store/magazine
- 020804 Residue deposition (ashfilling/backfilling)
020805  Stores
020806  Bunker

**Transport systems**
020901  Chairlift
020902  Conveyor belt roadway 020903  Conveyor discharge point
020904  Conveyor loading point
020905  Conveyor transfer point (belt to belt)
020906  Crosscut
020907  Endless rope haulage
020908  Haul road/travelling way
020909  Haulage
020910  Loading box
020911  Mono winch way
020912  Railway line
020913  Tips

**Workshops**
021001  Blacksmith shop
021002  Boilermaking or welding shop
021003  Carpenter shop
021004  Drill sharpening shop
021005  Electrical shop
021006  Fitting shop
021007  Garage (motor vehicles)
021008  Loco shed or repair bay
021009  Paint shop
021010  Plumber shop
021011  Service bay
021012  Vehicle maintenance
021013  Other workshops (not repair bays)
021014  Refuelling bays
021015  Battery charging stations

**Other**
021101  Acclimatisation area
021102  Refuge chamber
021103  Training area
03 OPENCAST (pit mining)

Category of working place

**NOTE that areas such as workshops, plants, offices etc. will not occur under this classification and should rather be placed at the surface groupings.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>030101</td>
<td>Berm</td>
</tr>
<tr>
<td>030102</td>
<td>Opencast</td>
</tr>
<tr>
<td>030103</td>
<td>Pit bottom</td>
</tr>
</tbody>
</table>

**Transport Systems**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>030201</td>
<td>Conveyor discharge point</td>
</tr>
<tr>
<td>030202</td>
<td>Conveyor loading point</td>
</tr>
<tr>
<td>030203</td>
<td>Conveyor transfer point</td>
</tr>
<tr>
<td>030204</td>
<td>Haul road</td>
</tr>
<tr>
<td>030205</td>
<td>Overland conveyor way</td>
</tr>
<tr>
<td>030206</td>
<td>Railway line</td>
</tr>
<tr>
<td>030207</td>
<td>Siding</td>
</tr>
<tr>
<td>030208</td>
<td>Tips/ore passes/chutes</td>
</tr>
</tbody>
</table>

**Workshops**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>030301</td>
<td>Maintenance/service bay</td>
</tr>
</tbody>
</table>

04 SURFACE MINING

Category of working place

**Mineral mining**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>040101</td>
<td>Dam reclamation</td>
</tr>
<tr>
<td>040102</td>
<td>Surface working/processing</td>
</tr>
<tr>
<td>040103</td>
<td>Waste dump reclamation</td>
</tr>
</tbody>
</table>

05 AQUATIC MINING

**NOTE: Accidents that occur whilst the ship/boat/oilrig is travelling or being transported, should not be classified as a reportable accident as they fall under Marine legislation. It is only when the ship/boat/oilrig is in position and operating that a mining related accident can occur.**

Category of working place

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>050001</td>
<td>At sea</td>
<td>Platforms</td>
</tr>
<tr>
<td>050002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------------------</td>
<td></td>
</tr>
<tr>
<td>050003</td>
<td>Diving vessels</td>
<td></td>
</tr>
<tr>
<td>050004</td>
<td>Floating process vessels</td>
<td></td>
</tr>
<tr>
<td>050005</td>
<td>On land</td>
<td></td>
</tr>
<tr>
<td>050006</td>
<td>River mining</td>
<td></td>
</tr>
<tr>
<td>050007</td>
<td>Dredges</td>
<td></td>
</tr>
</tbody>
</table>
ITEM 8. NAME OF WORKING PLACE

Name of the working place where the accident happened as indicated on the mine plan. This plan, as prescribed in Chapter 17 of the MHSA, is to be kept in the office of the mine manager or an office designated by him.

ITEM 9. DEPTH BELOW THE SURFACE (IN METRES)

The depth in metres below surface at which the accident occurred. This field applies only to underground and opencast mining, where depth is reflected as excavated depth.

ITEM 10. SECTION

NOTE: Name or codification given by mine must remain the same on all the accident report forms, as consistency for name of working place is important. Shift boss or mine overseer’s section or cost coding number can be used if this is the practice on the mine.

ITEM 11. DESCRIPTION OF ACCIDENT OR DANGEROUS OCCURRENCE IN WORDS

Narrative description of what happened. This should indicate clearly how and why the accident occurred, and the classification should be evident from the description.
ITEM 12. ACCIDENT CLASSIFICATION CODE

Item 12 to be used only when a person has been injured/disabled/killed. If no person was injured/disabled/killed, use Item 13 – Dangerous Occurrence Classification Codes.

01 Fall of ground

All fall of ground accidents should be further classified into the categories provided.

For each fall of ground accident resulting in a fatality, Addendum 3 (SAMRASS 3 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3 (1)

Rockburst (bump)

Rockbursts are those accompanied by positive signs of rapid closure of the excavations. This should be evident from fresh distortion of the supports, the face, hangingwall or sidewall. There should also be evidence of positive movement and energy release in the area at the time of the event. Falls which occur due to remote seismic activity must be classified as 01C: Gravity.

01A001 Face
01A002 Hanging wall
01A003 Sidewall
01A004 Footwall

Strainburst

Strainbursts are those involving spitting, flaking, scaling, or slabbing of the face or sidewall caused by the stress which occur instantaneously but are not associated with rapid closure. Flaking, scaling or slabbing which has taken place over a period of time and the fall that occurred as a result of gravity should be classified as 01C: Gravity.

01B001 Face
01B002 Hanging wall
01B003 Sidewall
01B004 Footwall

Gravity

Gravity falls are falls of ground which originate from their places in situ and do not fall into the two previous categories. An accident resulting from a falling rock striking someone after it has come into contact with the footwall, should be classified as 04A220 Rolling Rock.(see 04 General)

01C001 Face
01C002 Hanging wall
01C003 Sidewall
01C004 Footwall
01C005 Brow
02 Machinery, tools and equipment

These classifications should only be used for classifying accidents caused by and during the operation of the machinery. Electrocution during operation must be classified as 06. Machinery is used as defined in the regulations.

Conveyor belts

02A001 Head pulley
02A002 Snub pulley
02A003 Tail pulley
02A004 Idler
02A005 Tension carriage
02A006 Loading/transfer chute
02A007 Feederbreaker
02A008 Other (specify)

Drives, belts and chains

02B001 V-belt
02B002 Flat belt
02B003 Chain
02B004 Gears
02B005 Other (specify)

Portable power tools

This classification includes any hand tools which are operated by an external power source such as electricity, compressed air or hydraulics.

02C001 Coal drill
02C002 Rock drill
02C003 Portable electric tools
02C004 Other portable power tools
02C005 Aqua-jet \ water-jet

Other machinery not included under transportation and mining

02D001 Crushers
02D002 Fans
02D003 Processing plant equipment
02D004 (Specify)

03 Transportation and mining

Trackbound transport

These classifications should only be used for classifying accidents which occur as a result of the operation of the equipment.

Locomotive

0301A1 Diesel
0301A2 Battery
0301A3 Overhead trolley
0301A4 Diesel-electric
0301A5 Steam
0301A6 Other (specify)
**Locomotive drawn vehicle**

*For personnel transporters use 0301F*

0301B1  Hopper
0301B2  Other (specify)

**Rerailing**

0301C1  Rerailing

Accidents occurring during the rerailing of any railbound vehicle must be classified under this heading.

**Coupling/uncoupling**

0301D1  Coupling/uncoupling

Accidents occurring during the coupling/uncoupling of any railbound vehicles and during the coupling/uncoupling of any trailers must be classified under this heading.

**Loading equipment (trackbound)**

0301E1  Rocker arm shovel (boesman)

**Personnel transport**

0301F1  Bicycle
0301F2  Mancarriage
0301F3  Other

**Other**

0301G1  rail switches
0301G2  Tips
0301G3  Other (Specify)

Any trackbound transport not mentioned elsewhere above.

**Endless rope vehicle**

0302A1  Endless rope vehicle
0302A2  Chair lift

All accidents involving the driving machinery, haulage rope and attachments (including vehicles).

**Winches**

0303A1  Single drum winch

All accidents involving these machines, excluding runaways (05F). This classification does not include mono-rope installations.

0303A2  Double drum winch

All accidents involving these machines, excluding runaways (05F). This classification does not include scraper winch installations.

**Scraper winch installation**

All accidents involving driving machinery, ropes, snatchblocks, attachments, rigs etc.

0303B1  Face scraper
0303B2  Gully scraper
0303B3  Remote controlled
0303B4  Other (specify)
**Mono-rope/rail installations**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0303C1</td>
<td>Mono-rope installation</td>
</tr>
<tr>
<td>0303C2</td>
<td>Mono-rail installation</td>
</tr>
</tbody>
</table>
Hand tramming

0304A1 Hand tramming

All accidents directly caused by any vehicle which is being propelled by hand, whether it is railbound or not. Slipping etc. during operation is excluded.

Trackless transport

0305A1 Tractor

Towed vehicles (including trailers)

Any accident caused during the operation of the trailer, semi-trailer or other vehicle normally attached to the towing vehicle.

0305B0 Drawn by tractor
0305B1 Drawn by a vehicle other than the tractor
0305B2 Uncoupled trailer other vehicle
0305B3 Personnel transporter
0305B4 Other (specify)

Coal mining machines

0306A1 Coal cutter
0306B1 Mechanical miners, e.g. continuous miners, road headers.
0306C1 Shearer/longwall/shortwall mining equipment

Mechanical loaders: all mines (trackless)

0307A1 Rocker arm shovel (boesman)
0307B1 Gathering arm coal loader
0307C1 Excavator
0307C2 Dragline
0307C3 Backhoe (backactor)
0307D1 Stacker/reclaimer
0307D2 Bucketweel excavator
0307E1 Grab
0307F1 Front end loader
0307G1 Other mechanical loaders (specify)

Transporters

0308A1 Shuttle car
0308B1 L H D (load haul dumper)
0308B2 Scooptram
0308C1 Haultruck:
0308C2 0-9 ton
0308C3 10-19 ton
0308C4 20-99 ton
0308C5 100-199 ton
0308C6 200-299 ton
0308C7 >300 ton
0308D1 Motor cycle
0308E1 Bicycle: pneumatic tyre
0308F1 Multi purpose vehicle or utility vehicle
0308G1 Other transporters (specify)

Motor vehicles
Lifting machines

All accidents involving the load falling due to any reason other than the failure of the machine, should be classified as fall of material (04A).

- **Crane, jib, or crabwinch**
  - 0310A1 Mobile crane
  - 0310A2 Overhead crane
  - 0310A3 Crabwinch
  - 0310A4 Jib or boom on a truck
  - 0310B1 Raiseclimber
  - 0310C1 Forklift
  - 0310D1 Bosun chair
  - 0310E1 Chainblock
  - 0310E2 Ropeblock
  - 0310F1 Other lifting machines (specify)
  - 0310G1 Scissors lift, or platform lift (for raising or lowering persons)

Drilling

- 0311A1 Roofbolter
- 0311B1 Hydraulic drill rig 0311B2 Pneumatic drill rig

Other transportation and mining equipment

*Use only in cases where no specific classification is available.*

- 0312A1 Bulldozer
- 0312B1 Road grader
- 0312C1 Scaler
- 0312D1 Other (specify)

04 General

Fall of material/rolling rock

Any material falling freely or any other material or rock rolling after falling, or stacked material rolling or falling should be classified under this category, as well as falling objects during repairs to machines/equipment.

- 04A110 Fall of material
- 04A120 Rolling material
- 04A220 Rolling rock (mineral, not fall of ground)
Manual handling of material/mineral

Manual handling of material
04B101 Loading
04B102 Offloading
04B103 Carrying
04B104 Rolling
04B105 Pushing
04B106 Pulling
04B107 Lifting
04B108 Lowering

Manual handling of mineral
04B201 Loading
04B202 Offloading
04B203 Carrying
04B204 Rolling
04B205 Pushing
04B206 Pulling
04B207 Lifting
04B208 Lowering

Falling in/from
Persons free-falling in shafts, excavations and from structures. Falling from structures includes falling from stationary machines.

04C001 In shafts
04C002 In excavations
04C003 From structures
04C004 From machines

Slipping and falling
A person that is running, walking or standing, including slipping, tripping over, stumbling or overbalancing on more or less the same level.
For falls into excavations, use 04C

04D001 Slipping
04D002 Tripping over
04D003 Stumbling
04D004 Overbalancing

Burning and scalding
Burning and scalding due to electricity must be classified as 06.

04E001 Naked flame
04E002 Hot surface
04E003 Hot liquid
04E004 Steam
04E005 Chemical
04E006 Cement
For cement as a chemical, use 04E005
04E007 Other
Splinters
04F001  Wood
04F002  Metal
04F003  Rock
04F004  Other (specify)

Explosion
04G101  Methane
04G102  Coal dust
04G103  Hydrogen
04G105  Carbon dioxide
04G106  Carbon monoxide
04G107  Hydrogen sulphide
04G108  Other (specify)

Ignition
04G201  Methane
04G202  Coal dust
04G203  Hydrogen
04G205  Carbon dioxide
04G206  Carbon monoxide
04G207  Hydrogen sulphide
04G208  Other (specify)

Inhalation (gassing)
04G301  Methane
04G303  Hydrogen
04G304  Blasting fumes
04G305  Carbon dioxide
04G306  Carbon monoxide
04G307  Hydrogen sulphide
04G308  Other (specify)

Inundation/drowning
- Persons engulfed or drawn in by water, slime, rock or sand;
- include mudrush and drowning, collapse of sand, ash, fines, residue deposit etc.;
- also includes inundation whilst removing material from a dump or silo;
- being drawn into a bin or orepass/rockpass.

04H001  Engulfed by
04H002  Drawn in by
04H003  Drowned (fatal)
Struck by ventilation door
04J002 As a result of impact with
04J003 As a result of opening/closing of air lock etc.
04J004 Other (specify)

Struck by any object being physically handled by a worker
04K001 Struck by any object being physically handled by a worker

05 Conveyance accidents (shaft/winze)

These classifications only apply to the conveyance specified.
For railbound and trackless personnel transporters use 0301B2 or 0308G respectively.

Struck by
05A001 Cage
05A002 Skip
05A003 Kibble
05A004 Trailer (shaft conveyance)
05A005 Inspection conveyance
05A006 Elevator
05A007 Chair lift
05A008 Other conveyance (specify)

Struck by counterpoise of
05B001 Cage
05B002 Skip
05B003 Kibble
05B004 Trailer (shaft conveyance)
05B005 Inspection conveyance
05B006 Elevator
05B008 Other (specify)

Travelling by
05C001 Cage
05C002 Skip
05C003 Kibble
05C004 Trailer (shaft conveyance)
05C005 Inspection conveyance
05C006 Elevator
05C007 Chair lift
05C008 Other conveyance (specify)
05C009 Ladder (shaft/winze/travelling way)

Conveyance: breaking of rope or connections

In new regulations, all vertical and inclined winzes are considered to be shafts. Therefore, codes applying to winzes are not used in new SAMRASS codesets; hence the breaks in numbering in Section 05D.

Breaking of haulrope
05D101 Vertical shaft
05D102 Inclined shaft
05D105 Hatchway/elevator
05D106 Other (specify)
Breaking of tail rope
05D201  Vertical shaft
05D202  Inclined shaft
05D205  Hatchway/elevator
05D206  Other (specify)

Breaking of connections
05D301  Vertical shaft
05D302  Inclined shaft
05D305  Hatchway/elevator
05D306  Other (specify)

OVERWINDS OR UNDERWINDS

Overwind of conveyance
05E101  Vertical shaft
05E102  Inclined shaft
05E105  Hatchway/elevator
05E106  Other (specify)

Underwind of conveyance
05E201  Vertical shaft
05E202  Inclined shaft
05E205  Hatchway/elevator
05E206  Other (specify)

Runaway of conveyance
05F101  Vertical shaft
05F102  Inclined shaft
05F105  Hatchway/elevator
05F106  Other runaway (specify)

Derailment of conveyance
05F201  Vertical shaft
05F202  Inclined shaft
05F205  Hatchway/elevator
05F206  Other derailment (specify)

Conveyance leaving guides
05F301  Vertical shaft
05F302  Inclined shaft
05F305  Hatchway/elevator
05F306  Other “leaving guides” (specify)

Jamming of conveyance
05F401  Vertical shaft
05F402  Inclined shaft
05F405  Hatchway/elevator
05F406  Other
### 06 Electricity (not causing fires)

For fires caused by electricity use codes 07G.

#### Electrocution (fatal)

<table>
<thead>
<tr>
<th>AC</th>
<th>06A101</th>
<th>Low pressure (not exceeding 250V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06A102</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
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<td>06A103</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
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<td></td>
<td>06A104</td>
<td>Extra high pressure (exceeding 3000V)</td>
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<tr>
<td>DC</td>
<td>06A201</td>
<td>Low pressure (not exceeding 250V)</td>
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<tr>
<td></td>
<td>06A202</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
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<tr>
<td></td>
<td>06A203</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06A204</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
</tbody>
</table>

#### Electric shock

<table>
<thead>
<tr>
<th>AC</th>
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<th>Low pressure (not exceeding 250V)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>06B102</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
</tr>
<tr>
<td></td>
<td>06B103</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
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<tr>
<td></td>
<td>06B104</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
<tr>
<td>DC</td>
<td>06B201</td>
<td>Low pressure (not exceeding 250V)</td>
</tr>
<tr>
<td></td>
<td>06B202</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
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<td></td>
<td>06B203</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06B204</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
</tbody>
</table>

#### Electric flash

<table>
<thead>
<tr>
<th>AC</th>
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<th>Low pressure (not exceeding 250V)</th>
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</thead>
<tbody>
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<td>Medium pressure (above 250V but not exceeding 650V)</td>
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<tr>
<td></td>
<td>06C103</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06C104</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
<tr>
<td>DC</td>
<td>06C201</td>
<td>Low pressure (not exceeding 250V)</td>
</tr>
<tr>
<td></td>
<td>06C202</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
</tr>
<tr>
<td></td>
<td>06C203</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06C204</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
</tbody>
</table>

#### Equipment exploding

Switchgear but not transformers.

<table>
<thead>
<tr>
<th>AC</th>
<th>06D101</th>
<th>Low pressure (not exceeding 250V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06D102</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
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<tr>
<td></td>
<td>06D103</td>
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<td></td>
<td>06D104</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
<tr>
<td>DC</td>
<td>06D201</td>
<td>Low pressure (not exceeding 250V)</td>
</tr>
<tr>
<td></td>
<td>06D202</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
</tr>
<tr>
<td></td>
<td>06D203</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06D204</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
</tbody>
</table>

#### Transmission equipment

Include overhead powerlines, cables and transformers.

<table>
<thead>
<tr>
<th>AC</th>
<th>06E101</th>
<th>Low pressure (not exceeding 250V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>06E102</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
</tr>
<tr>
<td></td>
<td>06E103</td>
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<tr>
<td></td>
<td>06E104</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
<tr>
<td>DC</td>
<td>06E201</td>
<td>Low pressure (not exceeding 250V)</td>
</tr>
<tr>
<td></td>
<td>06E202</td>
<td>Medium pressure (above 250V but not exceeding 650V)</td>
</tr>
<tr>
<td></td>
<td>06E203</td>
<td>High pressure (above 650V but not exceeding 3000V)</td>
</tr>
<tr>
<td></td>
<td>06E204</td>
<td>Extra high pressure (exceeding 3000V)</td>
</tr>
</tbody>
</table>
Oil burns to person
Oil from a transformer or switchgear that exploded or short-circuited.

AC
06F101  Low pressure (not exceeding 250V)
06F102  Medium pressure (above 250V but not exceeding 650V)
06F103  High pressure (above 650V but not exceeding 3000V)
06F104  Extra high pressure (exceeding 3000V)

DC
06F201  Low pressure (not exceeding 250V)
06F202  Medium pressure (above 250V but not exceeding 650V)
06F203  High pressure (above 650V but not exceeding 3000V)
06F204  Extra high pressure (exceeding 3000V)

07  Fires

Please note the following:
• See 04G101 to 04G108 for an explosion not causing a fire.
• See 06 for electricity not causing a fire.

☞ For each accident or dangerous occurrence resulting from a fire, Addendum 6 (SAMRASS 6 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3(4)

07A001  Explosives
Causing a fire (see also codes 08 Explosives).
07B001  Igniter cord
07C001  Spontaneous combustion
07D001  Friction
07E001  Openflame (oxy-acetylene torch, blow lamp, gas film etc.)
07F001  Cutting or welding
07G001  Electrical  Causing a fire (see also 04G1).
07J001  Explosions such as coal dus/gast causing a fire
07K001  Other fires (specify)

08  Explosives and accessories

Detailed descriptions of explosives concerned are to be supplied in the addendum.

☞ For each accident or dangerous occurrence resulting from the use of explosives, Addendum 5 (SAMRASS 5 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3 (3)

08A001  While drilling
08B001  While handling
08C001  While charging
08D001  While withdrawing charges
08E001  During blasting operations
08F001  Other (specify) (eg stray currents)
08G001  While dealing with misfires
09 Subsidence or caving

Subsidence due to total extraction of coal to be excluded.

Subsidence has taken place when there is a visible effect on the surface, e.g. a sinkhole.

Caving has taken place when a large area underground has caved in, for reasons other than block cavity or total extraction in coal mines.

For each accident or dangerous occurrence resulting from a subsidence or caving, Addendum 7 (SAMRASS 7 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3 (5)

Subsidence as a result of:
- 09A001 Sinkhole
- 09A002 Mining operations
- 09A003 Underground fire
- 09A004 Other causes (specify)

Caving as a result of:
- 09B001 Sinkhole
- 09B002 Mining operations
- 09B003 Underground fire
- 09B004 Other causes (specify)

Note: If no injuries occurred during the subsidence or caving, make use of the dangerous occurrences classifications in Item 13. Use DA0101 etc where applicable.

10 Occupational diseases (non-diving)

The following must be classed as accidents:
- Acid or alkali burns, boot chafe, baratrauma, dermatitis, sepsis (including cellulitis and tetanus) and sporotrichosis, any of which constitute or arise from an injury received as the direct result of employment at a mine or works.

(Please note that this section may be transferred to the Directorate of Occupational Health of the Department of Minerals and Energy in future when the Occupational Diseases Database is created and will include Noise Induced Hearing Loss (NIHL) and pneumoconiosis)

- 10A000 Baratrauma (ear infection due to pressure)
- 10B000 Cellulitis (tissue infection)
- 10C000 Dermatitis (skin disease)
- 10D000 Sepsis (blood poisoning)
- 10E000 Sporotrichosis (moss)
- 10F000 Tetanus (lockjaw)
- 10G000 Boot chafe

11 Heat sickness

For each accident resulting from heat stroke or heat exhaustion, Addendum 8 (SAMRASS 8 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3(6)

- 11A000 Heat stroke
- 11B000 Heat exhaustion
12  **Diving sickness**

12A000  Asphyxiation (suffocation - fatal)
*Use injury code X99.*

12B000  Decompression sickness (bends)

12C000  Carbon dioxide poisoning

12D000  Carbon monoxide poisoning

12E000  Gas embolism

12F000  Oxygen

12G000  Treatment in decompression chamber (not for bends)

12H000  Squeezes or Baratrama (pressure)

12J000  Other (specify)

13  **Miscellaneous (specify)**

An accident which cannot be classified under any of the above headings must be classified here. The description of the accident must be accurate so as to ensure that, if possible, codes can be added in future to accommodate these accidents. These accidents will be analysed annually so as to determine whether new classifications are required.

13Z000  No definitive classification.
ITEM 13. DANGEROUS OCCURRENCE CLASSIFICATION CODE

Winding plants referred to here are those as defined in terms of the Regulations.

**Winding plant: running out of control**
Regulation 23.4 (h) (i)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AA0101</td>
<td>Winding engine</td>
</tr>
<tr>
<td>AA0102</td>
<td>Winding drum</td>
</tr>
<tr>
<td>AA0103</td>
<td>Conveyance</td>
</tr>
</tbody>
</table>

**Winding plant: fracture or failure of**
Regulation 23.4 (h) (ii)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB0101</td>
<td>Drum</td>
</tr>
<tr>
<td>AB0102</td>
<td>Drum shaft</td>
</tr>
<tr>
<td>AB0103</td>
<td>Drum bushes</td>
</tr>
<tr>
<td>AB0104</td>
<td>Main bearings</td>
</tr>
<tr>
<td>AB0105</td>
<td>Clutch</td>
</tr>
<tr>
<td>AB0106</td>
<td>Gearbox</td>
</tr>
<tr>
<td>AB0107</td>
<td>Driving water</td>
</tr>
<tr>
<td>AB0108</td>
<td>Lubricating system</td>
</tr>
<tr>
<td>AB0109</td>
<td>Interlocking or safety device</td>
</tr>
<tr>
<td>AB0110</td>
<td>Signalling system</td>
</tr>
<tr>
<td>AB0111</td>
<td>Any other essential part (specify)</td>
</tr>
</tbody>
</table>

**Winding plant: fracture/failure of rope/connection**
Regulation 23.4 (h) (iii).

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC0101</td>
<td>Winding rope</td>
</tr>
<tr>
<td>AC0102</td>
<td>Connection between winding rope and drum</td>
</tr>
<tr>
<td>AC0103</td>
<td>Connection between winding rope and conveyance</td>
</tr>
<tr>
<td>AC0104</td>
<td>Connection between rope and attached load</td>
</tr>
<tr>
<td>AC0105</td>
<td>Connection between conveyances</td>
</tr>
<tr>
<td>AC0106</td>
<td>Connection between conveyance and attached load</td>
</tr>
<tr>
<td>AC0107</td>
<td>Fracture of guide rope or its connections</td>
</tr>
<tr>
<td>AC0108</td>
<td>Fracture of balance or tail rope or its connections</td>
</tr>
</tbody>
</table>

**Winding plant: fracture/failure of sheave/shaft/bearings**
Regulation 23.4 (h) (iv)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD0101</td>
<td>Winding rope sheave</td>
</tr>
<tr>
<td>AD0102</td>
<td>Balance rope sheave</td>
</tr>
<tr>
<td>AD0103</td>
<td>Winding rope sheave shaft or bearings</td>
</tr>
<tr>
<td>AD0104</td>
<td>Balance rope sheave shaft or bearings</td>
</tr>
<tr>
<td>AD0105</td>
<td>Essential part of the headgear</td>
</tr>
<tr>
<td>AD0106</td>
<td>Other sheave support (specify)</td>
</tr>
</tbody>
</table>
*Winding plant: conveyance/shaft/crosshead*
Regulation 23.4 (h) (v)

- AE0101 Jamming of conveyance
- AE0102 Accidental overturning of conveyance
- AE0103 Conveyance fouling shaft equipment
- AE0104 Conveyance load fouling shaft equipment
- AE0105 Jamming of crosshead

*Winding plant: derailing*
Regulation 23.4 (h) (vi)

- AF0101 Derailing of conveyance

*Winding plant: leaving guides*
Regulation 23.4 (h) (vii)

- AG0101 Accidental leaving of guides by conveyance
- AG0102 Accidental leaving of guides by bridle
- AG0103 Accidental leaving of guides by frame
- AG0104 Accidental leaving of guides by crosshead

*Winding plant: fracture/failure of brakes*
Regulation 23.4 (h) (viii)

- AH0101 Fracture or failure of brake itself
- AH0102 Fracture or failure of brake operating mechanism

*Winding plant: safety catches*
Regulation 23.4(h) (ix)

- AI0101 Acting of safety catches when not required
- AI0102 Failure to act of safety catches when required

*Winding plant: overwind protection*
Regulation 23.4 (h) (x)

- AK0101 Acting of overwind prevention device when not required
- AK0102 Failure to act of overwind prevention device when required

*Winding plant: overwind*
Regulation 23.4 (h) (xi)

- AK0101 Overwind or over-run of the conveyance

*Winding plant: depth indicator*
Regulation 23.4 (h) (xii)

- AL0101 Failure of the depth indicator

**These classifications refer only to lifts and elevators as defined in the regulations.**

*Lifts and elevators: machinery/safety device*
Regulation 23.4 (i) (i)

- BA0101 Fracture or failure of any essential part of the driving or operating machinery.
BA0102  Fracture or failure of any safety device used in connection with the elevator.

**Lifts and elevators: rope/attachments**  
Regulation 23.4 (i) (ii)

BB0101  Fracture or distortion of elevator rope  
BB0102  Fracture or failure of rope attachments

**Lifts and elevators: sheave/shaft/bearings**  
Regulation 23.4 (i) (iii)

BC0101  Sheave  
BC0102  Sheave shaft or bearings

**Lifts and elevators: jamming car/counterpoise**  
Regulation 23.4 (i) (iv)

BD0101  Jamming of lift car  
BD0102  Jamming of counterpoise

**Lifts and elevators: brake**  
Regulations 23.4 (i) (v)

BE0101  Fracture or failure of brake  
BE0102  Fracture or failure of brake operating mechanism

**Lifts and elevators: safety catches**  
Regulation 23.4 (i) (vi)

BF0101  Acting of safety catches when not required  
BF0102  Failure to act of safety catches when required

**Lifts and elevators: overwind prevention device**  
Regulation 23.4 (i) (vi)

BG0101  Acting of the overwind prevention device when not required  
BG0102  Failure to act of the overwind prevention device when required

*The following classifications refer only to boilers and pressure vessels as defined in the regulations.*

**Boilers and pressure vessels**  
Regulation 23.4 (m)

CAB101  Fracture or failure of boiler drum  
CAB103  Fracture or failure of boiler pressure gauge  
CAB105  Fracture or failure of boiler pipe  
CAB107  Fracture or failure of safety valve (boiler)  
CAB109  Fracture or failure of other essential part (boiler)  
CAB111  Fracture or failure of boiler feed pump  
CAP102  Fracture or failure of pressure vessel receiver  
CAP104  Fracture or failure of pressure vessel pressure gauge  
CAP106  Fracture or failure of pipe  
CAP108  Fracture or failure of safety valve (pressure vessel)  
CAP110  Fracture or failure of other essential part (pressure vessel)
**Caving/subsidence:** extensive caving or subsidence  
Regulation 23.4 (b)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA0101</td>
<td>Sinkhole</td>
</tr>
<tr>
<td>DA0102</td>
<td>Subsidence on surface</td>
</tr>
<tr>
<td>DA0103</td>
<td>Other (specify)</td>
</tr>
</tbody>
</table>

**Note:** Where persons were injured or killed, use Item 12 to classify this accident e.g. 09A001 etc.

**Explosives (not causing fires)**

*For each accident or dangerous occurrence resulting from the use of explosives, Addendum 5 (SAMRASS 5 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3(3)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB0101</td>
<td>Accidental ignition (not causing a fire)</td>
</tr>
<tr>
<td>DB0102</td>
<td>Accidental detonation (not causing a fire)</td>
</tr>
<tr>
<td>DB0103</td>
<td>Exposure to blasting fumes (gassing) refer to 04G304 for exposure to blasting fumes where incapacitated and sent for 24 hour observation</td>
</tr>
<tr>
<td>DB0104</td>
<td>Other dangerous occurrences due to explosives (specify)</td>
</tr>
</tbody>
</table>

**Flow of broken rock**

Regulation 23.4 (c)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC0101</td>
<td>Flooding of considerable portion of workings with water or fluid material</td>
</tr>
<tr>
<td>DC0102</td>
<td>Failure of slimes dam</td>
</tr>
<tr>
<td>DC0103</td>
<td>Failure of other dam</td>
</tr>
<tr>
<td>DC0104</td>
<td>Failure of reservoir</td>
</tr>
<tr>
<td>DC0105</td>
<td>Failure of bulkhead or chute</td>
</tr>
<tr>
<td>DC0106</td>
<td>Failure of controlling mechanisms</td>
</tr>
</tbody>
</table>

**Fires and explosion of gas or dust**

*For each accident or dangerous occurrence resulting from a fire or explosion, Addendum 6 (SAMRASS 6 Form) at the back of this Codebook, must also be submitted. See Regulation 23.3(4)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDA100</td>
<td>Explosives</td>
</tr>
<tr>
<td>DDB100</td>
<td>Igniter cord</td>
</tr>
<tr>
<td>DDC100</td>
<td>Spontaneous combustion</td>
</tr>
<tr>
<td>DDD100</td>
<td>Friction</td>
</tr>
<tr>
<td>DDE100</td>
<td>Open flame</td>
</tr>
<tr>
<td>DDF100</td>
<td>Cutting or welding</td>
</tr>
<tr>
<td>DDG100</td>
<td>Electrical</td>
</tr>
<tr>
<td>DDH100</td>
<td>Cigarettes or smoking</td>
</tr>
<tr>
<td>DDH100</td>
<td>Methane</td>
</tr>
<tr>
<td>DDI100</td>
<td>Deleted in this SAMRASS version</td>
</tr>
<tr>
<td>DDJ100</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Coal dust**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDL100</td>
<td>Explosion (not causing a fire)</td>
</tr>
<tr>
<td>DDL200</td>
<td>Ignition (not causing a fire)</td>
</tr>
</tbody>
</table>

**Methane**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDM100</td>
<td>Explosion (not causing a fire)</td>
</tr>
<tr>
<td>DDM200</td>
<td>Ignition (not causing a fire)</td>
</tr>
</tbody>
</table>
### Hydrogen
- **DDN100** Explosion (not causing a fire)
- **DDN200** Ignition (not causing a fire)

### Other gas/dust (specify)
- **DDO100** Explosion (not causing a fire)
- **DDO200** Ignition (not causing a fire)

### Main ventilation fan
Regulation 23.4 (d)
- **DE0101** Breakdown of any main ventilation fan

### Chairlift: installation
Regulation 23.4 (n) (i)
- **EA0101** Fracture or failure of any part of chairlift installation
- **EA0102** Fracture or failure of safety device of chairlift installation

### Chairlift: driving machinery
Regulation 23.4.(n) (ii)
- **EB0101** Fracture or failure of essential part of the driving machinery

### Chairlift: rope/chain
Regulation 23.4 (n) (iii)
- **EC0101** Fracture, failure or serious distortion of any rope forming part of the chairlift
- **EC0102** Fracture, failure or serious distortion of any chain forming part of the chairlift

### Rockbursts
Regulation 23.4 (a)
- **FA0101** At least 10 linear meters of working face has been severely damaged
- **FA0102** At least 25m$^2$ of working area has been severely damaged
- **FA0103** At least 10 linear meters of gully has been restricted with rock
- **FA0104** At least 10 linear meters continuous or 30 linear meters cumulative
- **FA0105** At least 10 m$^2$ of roof or 5m$^3$ of rock has been displaced from the roof
- **FA0106** At least 10m$^3$ of rock has been freshly displaced

### Falls of Ground
Regulation 23.4 (a)
- **FB0101** At least 10 linear meters of working face has been severely damaged
- **FB0102** At least 25m$^2$ of working area has been severely damaged
- **FB0103** At least 10 linear meters of gully has been restricted with rock
- **FB0104** At least 10 linear meters continuous or 30 linear meters cumulative
- **FB0105** At least 10 m$^2$ of roof or 5m$^3$ of rock has been displaced from the roof
- **FB0106** At least 10m$^3$ of rock has been freshly displaced

### Power Failure
Regulation 23.4 (e)
- **GA0101** Underground power failure

### Flammable gas
Regulation 23.4 (g)
- **HA0101** Flammable gas detected for the first time
- **HA0102** Flammable gas detected again in the same area after 3 months
ITEM 14. DID ACCIDENT OR DANGEROUS OCCURRENCE OCCUR DURING NORMAL WORKING HOURS OR OVERTIME?

Normal working hours means the hours which a person usually or commonly works a particular shift or time during a day. If for example he is working overtime, this is not to be considered his normal working hours. If a worker works rotating shifts, this should be considered as normal working hours.

ITEM 15. DID ACCIDENT OR DANGEROUS OCCURRENCE HAPPEN AT NORMAL WORKPLACE?

This is at the place where a person/worker normally has to work, i.e. the area/place where the worker carries out his task for the major portion of his shift.

Persons who supervise or carry out service functions of a roving nature do not have “normal” working places and should therefore be indicated as Yes.

ITEM 16. AVERAGE NUMBER OF PERSONS AT WORK DURING PREVIOUS MONTH

Indicate the average number of persons at work (not in service) during the previous month. Make use of the appropriate location codes. This information is required to enable statistical rates to be calculated.
## SAMRASS 1 FORM
### SECTION C: RESPONSIBLE PERSONS

<table>
<thead>
<tr>
<th>Name of Manager</th>
<th>Designation</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>

This section requires the name, identity number or passport number, certificate number (if applicable) occupation code, of the persons immediately in charge of the person who was injured,

**For example:**

- manager or engineer;
- mine overseer or foreman;
- shiftboss;
- miner or artisan.

The intention is to record the details of the person immediately legally responsible for the injured person/place where as well as when the accident occurred. This infers that this person is certificated or appointed in most instances. The relevant certificate number refers to the certificate of competency as awarded by the Department of Minerals and Energy, e.g. mine overseer certificate. If a person is in an acting capacity, use 000000.

**For example:**

**ITEM 1.** Miner 1<sup>st</sup> level supervisor
**ITEM 2.** Shiftboss 2<sup>nd</sup> level supervisor
**ITEM 3.** Mine overseer 3<sup>rd</sup> level supervisor
**ITEM 4.** Manager 4<sup>th</sup> level supervisor

Similarly, if an artisan’s aide is injured:

**ITEM 1.** Artisan 1<sup>st</sup> level supervisor
**ITEM 2.** Foreman 2<sup>nd</sup> level supervisor
**ITEM 3.** Senior foreman 3<sup>rd</sup> level supervisor
**ITEM 4.** Engineer 4<sup>th</sup> level supervisor

The manager of the mine is required to sign this document immediately below this section and thereby verify its contents.
**SAMRASS 1 FORM**
**SECTION D FOR USE BY DME**

For use by the Department of Minerals and Energy

<table>
<thead>
<tr>
<th>SECTION D: FOR USE BY THE DEPARTMENT OF MINERALS AND ENERGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Regional accident or dangerous occurrence number</td>
</tr>
<tr>
<td>2. Date reported</td>
</tr>
<tr>
<td>3. Type of accident or dangerous occurrence</td>
</tr>
<tr>
<td>4. Accident or dangerous occurrence registered by</td>
</tr>
<tr>
<td>5. Inquiry type</td>
</tr>
<tr>
<td>6. Probable cause of accident or dangerous occurrence</td>
</tr>
<tr>
<td>7. Contravention in Inspector's opinion</td>
</tr>
<tr>
<td>8. If yes, Act/Regulation contravened</td>
</tr>
<tr>
<td>9. Administrative fine recommended?</td>
</tr>
<tr>
<td>10. Date evaluation form completed</td>
</tr>
</tbody>
</table>

**INSPECTORATE DETAILS**

<table>
<thead>
<tr>
<th>NAME (In block letters)</th>
<th>DATE</th>
<th>SIGNATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspector of Mines</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Senior Inspector of Mines (Mining)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Senior Inspector of Mines (Mining Equipment)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are criminal proceedings envisaged?</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

**ITEM 1. REGIONAL ACCIDENT NUMBER**

Regional offices commence numbering at 0001 at the beginning of each year e.g. 1998 R 0001 F

- **1998** Year in which accident was reported
- **R** Region in which accident happened
- **0001** Accident number as reported at regional office. To be sequentially numbered.
- **I** Type of accident i.e. F (Fatal), I (Injury), M (Multiple) etc.

**Regional codes**

- A Western Cape region
- B Northern Cape region
- C Free State region
- D Eastern Cape region
- E Kwazulu/Natal region
- F Mpumalanga region
- G Limpopo region
- H Gauteng region
- J North West (Sth) region
- K North West (Nth) region

**ITEM 2. DATE REPORTED**

YYYY/MM/DD
ITEM 3. **TYPE OF ACCIDENT OR DANGEROUS OCCURRENCE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Duplicate/deleted (not for statistics)</td>
</tr>
</tbody>
</table>
| F    | One person killed (F=fatal)  
Zero persons injured  
Zero persons totally disabled, therefore  
Total number of reportable casualties = 1 only |
| I    | One person reportably injured  
Zero persons killed  
Zero persons totally disabled, therefore  
Total number of reportable casualties = 1 only |
| K    | A fatal multiple accident (K = killed)  
Two or more persons killed or  
One person killed and one or more persons reportably injured or disabled  
Two or more persons killed with one or more persons reportably injured or disabled, therefore  
Total number of reportable casualties = 2 or more |
| M    | Multiple persons reportably injured or disabled  
Two or more persons injured or disabled  
Zero persons killed, therefore  
Total number of reportable casualties = 2 or more |
| N    | A Dangerous Occurrence reportable in terms of regulation 23.4  
Zero persons killed  
Zero persons reportably injured  
Zero persons totally disabled  
Total number of reportable casualties = 0 |
| T    | One person totally disabled for own occupation, i.e. paraplegic / quadriplegic / deaf / blind / permanently bedridden/ permanently totally disabled (eg loss of two limbs) allocate 6000 days lost.  
Zero persons killed  
Zero persons reportably injured  
Total number of reportable casualties = 1 |
| H    | Mining accident included in Stats but excluded from levy purposes |

**NOTE:** In the event of a subsequent death, records must be recoded by Inspectorate eg: from M = multiple to K = fatal multiple, or from I=injury to F=fatal.
ITEM 4.  ACCIDENT OR DANGEROUS OCCURRENCE
REGISTERED BY:

Initials:  Date:

Initials of accidents register clerk

ITEM 5.  INQUIRY TYPE

This serves to identify the type of inquiry held by the Inspector.

A  No investigation, no inquiry: classification only with mine investigation included
B  Investigation to determine whether inquiry is necessary.
C  Inquiry, no referral to Director of Public Prosecutions
D  Inquiry, with referral to Director of Public Prosecutions
E  Investigation converted to inquiry; no referral to Director of Public Prosecutions
F  Investigation converted to inquiry; referral to Director of Public Prosecutions

ITEM 6.  PROBABLE CAUSE OF ACCIDENT OR DANGEROUS OCCURRENCE

NOTE: THIS REFER TO THE BASIC CAUSES OF THE ACCIDENT OR DANGEROUS OCCURRENCE

PROVISION HAS BEEN MADE FOR ADDITIONAL UNDERLYING CAUSES TO BE INCLUDED (UP TO 2 UNDERLYING CAUSES) SHOULD THIS BE FOUND TO BE THE CASE.

E.G. PROVIDE THE BASIC CAUSE IN THE FIRST SPACE, AND ANY ADDITIONAL UNDERLYING CAUSES IN THE SECOND AND THIRD SPACES IF NECESSARY

TRAINING OR PLACEMENT FACTORS

01 Inadequate mental or physical limitations

Physical limitations
01A01 Pre-placement medical examination not done
01A02 Man-job specifications not available to medical officer
01A03 No periodical medical examinations
01A04 Physical short-comings
01A05 Limited ability to sustain body position
01A06 Substance sensitivity/allergy
01A07 Physical capability analysis not compiled/utilised

Mental limitations
01B01 Personnel selection inadequate/not adhered to
01B02 Fears or phobias
01B03 Emotional disturbances
01B04 Mental disorder
01B05 Intelligence level
01B06 Inability to comprehend
01B07 Poor judgement
01B08 Poor co-ordination
01B09 Slow reaction time
01B10 Low mechanical aptitude
01B11 Low learning ability
01B12 Memory failure

**General**
01C01 Workplace not modified to accommodate personal shortcomings
01C02 No/inadequate system to identify shortcomings during probationary period
01C03 Physical demands of job not explained at interview
01C04 Other (specify)

**02 Lack of knowledge**

**Training**
02A01 Inadequate induction/orientation
02A02 Inadequate initial training
02A03 Did not attend risk control training course
02A04 Lack of knowledge regarding safety aspects of job

**Task training & instructions**
02B01 No/inadequate training on task that lead to incident
02B02 Not trained on revised job procedure
02B03 No/inadequate instructions given before task conducted
02B04 Lack of on the job training
02B05 Lack of practice under supervision

**Periodical review of training**
02C01 Within the previous year
02C02 More than one year ago
02C03 Other (specify)

**03 Lack of skill**
03A01 Job not done regularly enough to maintain skill
03A02 New on particular job/lack of experience
03A03 Other (specify)
## PERSONAL FACTORS

### 04 Stress - physiological or mental

**Physiological**
- **04A01** Decreased sensory ability due to temporary illness
- **04A02** Taking prescribed medicine
- **04A03** Under the influence of drugs, alcohol, other than prescribed medicine

**Exposure to:**
- **04B01** Temperature extremes
- **04B02** Health hazards
- **04B03** Abnormal postures/ergonomical stresses
- **04B04** Oxygen deficiency
- **04B05** Atmospheric pressure variation
- **04B06** Fatigue due to lack of rest
- **04B07** Low levels of illumination
- **04B08** Water/damp conditions

**Mental stress as a result of:**
- **04C01** Changes in equipment/workplace
- **04C02** Changes in personnel
- **04C03** Changes in task load
- **04C04** Changes in work rate
- **04C05** Changes in working hours
- **04C06** Hazardous nature of job causes stress
- **04C07** Personal/family problems
- **04C08** Frequent difficult decisions to make
- **04C09** Distracted by other activities/conditions
- **04C10** Routine/monotonous
- **04C11** Constant demand for uneventful vigilance
- **04C12** Confusing directions
- **04C13** Conflicting demands
- **04C14** Frustration
- **04C15** Other (specify)

### 05 Improper motivation

**Related to supervisors**
- **05A01** Little or no recognition for good work
- **05A02** More emphasis on poor performance than good performance
- **05A03** Inappropriate or aggressive behaviour
**Related to the task**

05B01 Improper performance is rewarded
05B02 Proper performance is punished/ridiculed
05B03 Lack of incentives
05B04 Inappropriate peer pressure
05B05 Inadequate performance feedback
05B06 Not informed of importance of his/her contribution to safety
05B07 Not informed of importance of task
05B08 Other (specify)

**06 Abuse or misuse**

*Incorrect use of tools, equipment, material, etc. due to:*

06A01 Inconvenience of obtaining correct tools
06A02 Vague/incorrect instructions
06A03 Habit/personal preference
06A04 Vandalism
06A05 Other (specify)

**07 Inadequate leadership and supervision**

*Supervisors*

07A01 Inadequate involvement/leadership to prevent incident
07A02 Effectiveness of employees training not followed up
07A03 Too little authority
07A04 Inadequate instructions/orientation/training
07A05 Deviation that lead to incident previously ignored
07A06 Inadequate supervision task

*Management*

07B01 Lack of commitment and/or involvement in risk control programme
07B02 Inadequate work planning/programming
07B03 Inadequate communication
07B04 Giving conflicting objectives/goals/standards
07B05 Providing inadequate guidance/information
07B06 Inadequate performance measurement/evaluation
07B07 Inadequate/incorrect performance feedback
07B08 Inadequate policy/procedure/guideline
07B09 Shortcomings in risk control system
07B10 Unclear/conflicting assignment of responsibility/delegation
07B11 Inadequate funds/personnel/equipment to control risk exposure
08 Engineering

Inadequate design
08A01 All risks not assessed in conceptual stage
08A02 Factors that lead to incident not identified in design stage
08A03 Risks of interfacing operations not assessed

Specifications not researched for design
08B01 Safety
08B02 Health
08B03 Standards and procedures and Codes of Practice
08B04 Incident history
08B05 Control of identified risks not included in design
08B06 Health and safety personnel not involved at design stage
08B07 Health and safety specifications not prescribed to manufacturer

Construction
08C01 Health and safety not on agenda of meetings prior to and during construction
08C02 Inadequate/no health and safety inspections done during construction
08C03 Deviation from prescriptions/standards by contractor

Commissioning
08D01 Equipment release (handover) not/inadequately done
08D02 Pre-use risk assessment not done

Operation
08E01 Changes made without risk assessment
08E02 Changes made without prior notice

JOB FACTORS

09 Inadequate purchasing

Safety specification
09A01 Not researched
09A02 Not specified to supplier
09A03 Health and safety control personnel not involved in purchasing

Hazardous substances
09B01 Data sheet on hazardous substances not obtained
09B02 Safer substances not considered
09B03 Warning/prescription labels absent or illegible, or precautions not specified
09B04 Improper handling/disposal/storage
09B05  Inadequate storage facilities
09B06  Purchasing of hazardous substances not controlled

**Suppliers**
09C01  Purchasing specifications not adhered to
09C02  Late delivery or non delivery
09C03  Required datasheet on hazardous substances not supplied

10  **Maintenance**

**Malfunction/breakdown of equipment**

**Inadequate assembly/maintenance standards and procedures**
10A01  Legal standards inadequate
10A02  Frequency of maintenance
10A03  Improper assembly
10A04  Service manual
10A05  Incorrect adjustment
10A06  Planned maintenance
10A07  Parts
10A08  No schedule for planned maintenance
10A09  Maintenance not done in accordance with schedule or procedure
10A10  Inadequate time/priority for maintenance
10A11  Inadequate instructions
10A12  Inadequate control over maintenance
10A13  Lubrication/service points difficult to reach/ inaccessible
10A14  Sub-standard lubricants used

**Repairs to equipment**
10B01  Defects not clearly specified on job card
10B02  No or vague instructions
10B03  Completed jobs incompetently checked
10B04  Wrong/substandard parts
10B05  Incompetent person checking completed tasks

11  **Equipment, tools and material**

**Tools**
11A01  Wrong tools supplied
11A02  Tools sub-standard
11A03  Not registered at planned maintenance
11A04  Tools not available/difficult to obtain
11A05  Tools classified as “unsafe”/“not repairable” in use
11A06  Tools damaged or unsafe
11A07  Correct tools for task not available
11A08  Available but not used
Equipment
11B01 Wrong/sub-standard equipment
11B02 No or inadequate system to prevent use of unsafe equipment
11B03 Equipment defects not reported
11B04 Equipment not checked
11B05 Not registered at planned maintenance
11B06 Available but not used

Material
11C01 Incorrect material supplied
11C02 No material available
11C03 Damaged or unsafe material
11C04 Available but not used

Personal protective equipment
11D01 Wrong/sub-standard equipment
11D02 No or inadequate system to prevent use of unsafe equipment
11D03 Equipment defects not reported
11D04 Equipment not checked
11D05 Not registered at planned maintenance
11D06 Available but not used

Wear and tear
11E01 Tools/equipment/facility not used for designed purpose
11E02 Use beyond normal service life
11E03 No adjustment made for wear
11E04 Abnormal use-overloading/excessive speed
11E05 No adjustment made for increased usage
11E06 Substitute lubricants/liquids used
11E07 Used by untrained persons
11E08 No/inadequate monitoring of wear/deterioration

12 Standards and procedures

Standards/code of practice
12A01 Inadequate development of standards
12A02 Inadequate communication of standards
12A03 Inadequate maintenance of standards
12A04 Codes of Practice not drawn up/prepared

Procedures
12B01 No/inadequate task analysis and procedures system
12B02 Procedure not used for training purposes
12B03 No specific rule to control actions that lead to incident
12B04 Persons involved not informed
12B05  No signs/notices to reinforce rule
12B06  Rule in conflict with other rules
12B07  Inadequate method for hazardous task identification
12B08  No relevant task observation done

**On the job training inadequate/does not include**
12C01  Training needs analysis
12C02  Procedures
12C03  Methods
12C04  Practices
12C05  Rules
12C06  Safety/risk control
12C07  No/inadequate induction/orientation training
12C08  Training programme inadequate
12C09  Programme not followed

13  **Miscellaneous**
13A01  Other (Specify)

**ITEM 7. CONTRAVENTION IN INSPECTOR’S OPINION**

*Yes*
*No*
ITEM 8.  IF YES, ACT/REGULATION OR CODE OF PRACTICE CONTRAVENED

This field must be completed whenever possible and only refers to a regulation which could possibly have been contravened.
The regulation number is entered as it appears in the Regulations.

There may be some confusion at the moment due to the current situation of the overlap of the Mine Health and Safety Act, with its own regulations and the Minerals Act with its own regulations. To distinguish between these Acts the following initial code is to be used to differentiate between them:

01 Mine Health and Safety Act (MHSA)
02 MHSA Regulations
03 Minerals Act (MA)
04 MA Regulations
05 Code of Practice in terms of any of the Acts (COP)

For example:

• Section 32(b) of the Mine Health and Safety Act will be coded : 01 32b
• Minerals Act Regulation 8.9.9 will be coded : 04 8.9.9
• Any Code of Practice to be coded 05 and where the code is required in terms of a regulation or section of the Act, the relevant regulation or section to be coded, i.e.:
  Code of Practice required in terms of Section 9(2) of the MHSA to be coded: 05 9 2.

If the COP is not required by Section or regulations, use: 05 00.

ITEM 9.  ADMINISTRATIVE FINE RECOMMENDED?

Yes
No

ITEM 10.  DATE EVALUATION OF REPORT COMPLETED

YYYY/MM/DD

This is the date that the investigating officer (Inspector) completes his investigation/inquiry and completes Section D

ITEM 11.  INSPECTOR OF MINES FULL NAME

Name: Date: Signature

Use block letters.
ITEM 12.  SENIOR INSPECTOR OF MINES (MINING)

Name:   Date:   Signature
Use block letters.

ITEM 13.  SENIOR INSPECTOR OF MINES: (MINING EQUIPMENT)

Name:   Date:   Signature
Use block letters.

NOTE: Should there be any amendments to any of the information entered onto the database as a result of new information coming to light at the subsequent inquiry/investigation, an amended form, clearly marked “AMENDED” must be forwarded to Head Office by the Regional Office.

This amended form must be marked for the attention of the Main User of SAMRASS, who will then update the amended information onto the SAMRASS database.

ITEM 14.  ARE CRIMINAL PROCEEDINGS ENVISAGED?

Item 5 (Inquiry Type) requires classifications of inquiries referred to the Director of Public Prosecutions. If the investigating officer recommends prosecution (Criminal Proceedings), this should be indicated here.

Yes
No
### SAMRASS 2 FORM

#### SECTION E: DETAILS OF EMPLOYEE

*(THIS SECTION NEED NOT BE COMPLETED FOR A DANGEROUS OCCURRENCE)*

<table>
<thead>
<tr>
<th>Name of Mine</th>
<th>YEAR</th>
<th>ACC REF NO</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of accident or dangerous occurrence number</th>
<th>Y Y Y Y Y M M M D D</th>
</tr>
</thead>
<tbody>
<tr>
<td>(use YYYY/MM/DD format)</td>
<td></td>
</tr>
<tr>
<td>Regional accident or dangerous occurrence number</td>
<td>Y Y Y Y R N N N N I</td>
</tr>
</tbody>
</table>

#### SECTION E: EMPLOYEE’S DETAILS – NOTE: THIS SECTION NEED NOT BE COMPLETED FOR A DANGEROUS OCCURRENCE

1. Surname
2. Full first names
3. Industry number
4. PF/Company number
5. Identity/Passport number
6. Date of birth (Use YYYYMMDD format) 
7. Country of origin
8. Population group
9. Was the injured an employee ("E"), a contractor ("C") or a Casual ("T")?
10. Name of contracting company (if applicable)
11. Male or female
12. Normal occupation at time of accident
13. Total experience in current occupation
14. Was injured carrying out normal duties at time of accident?
15. Date first employed with current employer (Use YYYYMMDD format)
16. Date last shift worked (Use YYYYMMDD format)
17. Date resumed work (Use YYYYMMDD format)
18. If fatal, date of death

---

**ITEM 1. Surname**

**ITEM 2. FULL FIRST NAMES**

**ITEM 3. INDUSTRY NUMBER**

*(One letter per block)*

**ITEM 4. P.F. /COMPANY NUMBER**

*(One letter per block)*

**ITEM 5. IDENTITY/PASSPORT NUMBER**

*(One letter per block)*
ITEM 6. DATE OF BIRTH

- Use YYYY/MM/DD;
- use year of birth and 1 January if actual date of birth is not known and has to be estimated, e.g. 1970-01-01.

ITEM 7. COUNTRY OF ORIGIN

This classification is only of importance for persons who do not normally reside within the boundaries of the country. For South African citizens residing in the country, use code 10: South Africa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>South Africa</td>
</tr>
<tr>
<td>15</td>
<td>Lesotho</td>
</tr>
<tr>
<td>16</td>
<td>Botswana</td>
</tr>
<tr>
<td>17</td>
<td>Swaziland</td>
</tr>
<tr>
<td>31</td>
<td>Mozambique</td>
</tr>
<tr>
<td>79</td>
<td>Namibia</td>
</tr>
<tr>
<td>99</td>
<td>Other (specify)</td>
</tr>
</tbody>
</table>

ITEM 8. POPULATION GROUP

01 = African/Black  
02 = Asian/Indian  
03 = Coloured  
04 = White

ITEM 9. WAS THE INJURED A PERMANENT EMPLOYEE (E), CONTRACTOR (C) OR A CASUAL (T)

- A permanent employee is a person in the full time employ of the mine (on the company’s payroll);
- A contractor is a person in the full employ of a contractor to the mine;
- A casual is a person contracted to the mine on a temporary basis to do a specific, short term job.

ITEM 10 NAME OF CONTRACTING COMPANY

If a contractor is involved, the name of the contracting company to be supplied.

ITEM 11. MALE OR FEMALE

Use M or F in appropriate block

ITEM 12. NORMAL OCCUPATION AT TIME OF ACCIDENT

- Normal occupation implies that the job/duties/functions that the injured person was carrying out at the time of the accident was within his job description, e.g. if a boilermaker was welding, this is his normal occupation. If, however, he was making electrical repairs, this is not his normal occupation.
- An explanation of the coding system can be found as an addendum at the back of this codebook.
- n.e.c. = not elsewhere classified
Alphabetical Index of MISCO (Mining Industry Standard Code of Occupations)

70301  Acclimatisation supervisor
70302  Acclimatisation worker
80699  Accommodation worker (other accommodation n.e.c.)
80599  Accommodation worker (residential n.e.c.)
10206  Accountant (n.e.c.)
10200  Accounting/financial management
10299  Accounting/financial worker (n.e.c.)
30402  Acid plant official
30404  Acid plant worker
10900  Administration/secretarial management
10903  Administrative officer
10000  Administrative/financial management (multi-disciplinary)
10099  Administrative/financial management (n.e.c.)
19999  Administrative/financial/business worker (n.e.c.)
60601  Advocate/barrister
90000  Agricultural management (multi-disciplinary)
90099  Agricultural management (n.e.c)
99999  Agricultural worker (n.e.c)
40412  Air conditioning/refrigeration engineer
40413  Air conditioning/refrigeration mechanic
81100  Air transport management
81101  Air transport officer
81199  Air transport worker (n.e.c.)
21507  Air and water services team leader/supervisor
21508  Air and water services worker
81102  Airport controller

70803  Ambulance officer
70101  Anaesthetist
60106  Aptitude tester
60105  Aptitude testing supervisor
21406  Aquajet operator
50901  Architect
50902  Architectural assistant
50900  Architectural management
50999  Architectural worker (n.e.c.)
40320  Armature winder
50403  Assay technician
50401  Assayer
50499  Assay/chemistry/laboratory worker (n.e.c.)
29909  Assistant driller (Ocean)
10511  Assessor
35910  Assopulp worker?
60602  Attorney/solicitor/conveyancer
70303  Audio visual tester
70322  Audiologist/speech therapist
70323  Audiometrist
10100  Auditing management
10199  Auditing worker (n.e.c.)
10102  Auditor (computer/systems)
10101  Auditor (internal and external)
40319  Auto electrician
20805  Backfill worker
35020  Baker
11114  Banking officer
11100  Banking/investment management
11199  Banking/investment worker (n.e.c.)
21304  Banksman/onsetter
81202  Bargemaster (Ocean)
80803  Barber/hairdresser
80706  Barman
60601  Barrister/advocate
35110  Beer maker
80705  Beerhall supervisor
21305  Bell signaller
30205  Beltsman
70304  Bio-medical engineer
70102  Biokineticist
40422  Blacksmith
40424  Blacksmith: apprentice
40421  Blacksmith: chargehand
40420  Blacksmith: foreman
40423  Blacksmith: operative
40425  Blacksmith: worker (n.e.c.)
20306  Blaster (supervisory)
20502  Blaster: opencast/quarry (non-supervisory)
20503  Blaster: surface works (eg smelter) (non-supervisory)
20501  Blaster: underground I (non-supervisory)
20599  Blasting worker (n.e.c.)
40803  Boiler attendant
40450  Boilermaker: operative (gr 1)
40451  Boilermaker: operative (aide) (gr 2)
36015  Book binder
81202  Bosun (Ocean)
10208  Bookkeeper
21404  Box/orepass/rockpass controller
36710  Brick maker
40614  Bricklayer
40617  Bricklayer: aide
40615  Builder
80499  Building service worker (n.e.c.)
80400  Building services management
40618  Building worker (n.e.c.)
40616  Building worker: operative
50503  Business analyst (computers)
10001  Business management
35010  Butcher
10312  Buyer/purchaser
40343  Cable joiner
30508  Calcinating worker
80701  Canteen supervisor
80703  Canteen worker
80501  Caretaker/housekeeper
40621  Carpenter
40622  Carpenter and joiner
40623  Carpenter and joiner: apprentice
40620  Carpenter and joiner: chargehand
40619  Carpenter and joiner: foreman
40624  Carpenter: aide
40625  Carpenter: worker (n.e.c.)
10209  Cashier
30507  Caster
80700  Catering management
21699  Cementer (Ocean)
80799  Catering worker (n.e.c.)
21602  Cementation driller/injector
21601  Cementation supervisor
21699  Cementation worker (n.e.c.)
21307  Chairlift operator
00000  Chairman (group)
80604  Changehouse team leader/supervisor
80605  Changehouse worker
10395  Checker
80702  Chef/cook
40701  Chemical engineer
40700  Chemical engineering management
40799  Chemical engineering worker (n.e.c.)
30499  Chemical process worker (n.e.c.)
50402  Chemist
50404  Chemist technician
00000  Chief executive
80802  Child minder
70320  Chiropodist/podiatrist
60805  Cinema/video operator
40601  Civil engineer
40600  Civil engineering management
40610  Civil engineering technician
40699  Civil engineering worker (n.e.c.)
40651  Civil/building chargehand (other, n.e.c.)
40650  Civil/building foreman (other, n.e.c.)
40652  Civil/building tradesman (other, n.e.c.)
80402  Cleaner (office)/tea maker
40611  Clerk of works
10295  Clerk (accounts/finance)
99995  Clerk (agriculture, n.e.c.)
81195  Clerk (air transport)
50995  Clerk (architectural)
10195  Clerk (auditing)
11195 Clerk (banking/investment)
80795 Clerk (catering)
80695 Clerk (club)
60995 Clerk (creative arts)
10795 Clerk (economics)
40195 Clerk (engineering planning)
49995 Clerk (engineering)
51095 Clerk (environmental)
80395 Clerk (estate/township)
70895 Clerk (first aid)
10995 Clerk (general e.g. filing n.e.c.)
50195 Clerk (geology)
80595 Clerk (hostel/quarters).
50795 Clerk (industrial engineering)
60295 Clerk (industrial relations)
10595 Clerk (insurance)
60695 Clerk (legal)
60795 Clerk (library)
10895 Clerk (marketing/sales)
79995 Clerk (medical)
39995 Clerk (metallurgical plant)
20195 Clerk (mining planning)
29995 Clerk (mining) (n.e.c.)
10495 Clerk (payroll/timekeeping)
60195 Clerk (personnel)
36095 Clerk (printing)
10695 Clerk (property/mining rights)
60895 Clerk (public relations)
81095 Clerk (rail transport)
80995 Clerk (road transport)
50395 Clerk (rock mechanics)
50895 Clerk (safety/loss control)
60495 Clerk (school)
80195 Clerk (security)
61095 Clerk (sports/recreation)
50695 Clerk (statistics)
10395 Clerk (stores)
00295 Clerk (strategic planning)
50295 Clerk (survey)
11295 Clerk (tax)
60395 Clerk (training)
60595 Clerk (welfare)
70202 Clinical assistant
80600 Club management
80601 Club secretary
80602 Club team leader
80603 Club worker
20604 Coal auger operator
20601 Coal cutter operator
20605 Coal plough operator
30211 Coal preparation worker
<table>
<thead>
<tr>
<th>Code</th>
<th>Job Title</th>
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<tbody>
<tr>
<td>30509</td>
<td>Coking plant attendant</td>
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<tr>
<td>36014</td>
<td>Collator</td>
</tr>
<tr>
<td>80401</td>
<td>Commissionaire (offices)</td>
</tr>
<tr>
<td>80502</td>
<td>Commissionaire (residential accommodation)</td>
</tr>
<tr>
<td>10900</td>
<td>Company secretary (administrative)</td>
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<td>40804</td>
<td>Compressor attendant</td>
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<tr>
<td>50508</td>
<td>Computer operator</td>
</tr>
<tr>
<td>50505</td>
<td>Computer programmer</td>
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<tr>
<td>30399</td>
<td>Concentration/flotation worker (n.e.c.)</td>
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<tr>
<td>19996</td>
<td>Consultant (administrative/financial, n.e.c.)</td>
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<tr>
<td>99996</td>
<td>Consultant (agriculture, n.e.c.)</td>
</tr>
<tr>
<td>49996</td>
<td>Consultant (engineering, n.e.c.)</td>
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<tr>
<td>09996</td>
<td>Consultant (general management, n.e.c.)</td>
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<tr>
<td>69996</td>
<td>Consultant (humanities, n.e.c.)</td>
</tr>
<tr>
<td>79996</td>
<td>Consultant (medical, n.e.c.)</td>
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<tr>
<td>39996</td>
<td>Consultant (metallurgy/beneficiation/manufacturing, n.e.c.)</td>
</tr>
<tr>
<td>29996</td>
<td>Consultant (mining production, n.e.c.)</td>
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<tr>
<td>59996</td>
<td>Consultant (scientific/technical, n.e.c.)</td>
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<td>89996</td>
<td>Consultant (service occupation, n.e.c.)</td>
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<tr>
<td>11296</td>
<td>Consultant (tax)</td>
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<td>40000</td>
<td>Consulting engineer (engineering support)</td>
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<tr>
<td>20000</td>
<td>Consulting engineer (mining)</td>
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<tr>
<td>30003</td>
<td>Consulting metallurgist</td>
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<td>20602</td>
<td>Continuous miner driver</td>
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<td>Contractor (outside)</td>
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<td>30202</td>
<td>Control room operator</td>
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<td>60602</td>
<td>Conveyancer/attorney/solicitor</td>
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<td>Conveyer worker (n.e.c.)</td>
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<td>21202</td>
<td>Conveyer belt attendant</td>
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<td>21201</td>
<td>Conveyer belt team leader/supervisor</td>
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<tr>
<td>80702</td>
<td>Cook/chef</td>
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<td>10901</td>
<td>Corporate secretary (admin)</td>
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<td>10205</td>
<td>Cost accountant</td>
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<td>10205</td>
<td>Cost controller</td>
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<td>81301</td>
<td>Crane driver</td>
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<td>81398</td>
<td>Crane driver trainer</td>
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<td>60999</td>
<td>Creative worker (n.e.c.)</td>
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<td>10207</td>
<td>Credit controller</td>
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<td>20103</td>
<td>Critical path scheduler</td>
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<td>90499</td>
<td>Crop worker</td>
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<tr>
<td>81009</td>
<td>Crossing attendant</td>
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<td>30207</td>
<td>Crusher attendant</td>
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<td>30212</td>
<td>Crusher supervisor</td>
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<td>30505</td>
<td>Cupolaman</td>
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<tr>
<td>49903</td>
<td>Cutter</td>
</tr>
<tr>
<td>30403</td>
<td>Cyanidation team leader/supervisor</td>
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<tr>
<td>30405</td>
<td>Cyanidation worker</td>
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<tr>
<td>50513</td>
<td>Data base administrator</td>
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<tr>
<td>50514</td>
<td>Data base technician</td>
</tr>
<tr>
<td>50510</td>
<td>Data capture supervisor</td>
</tr>
<tr>
<td>50511</td>
<td>Data capture typist</td>
</tr>
</tbody>
</table>
29908  Day pusher (Ocean)
29910  Deck attendant (Ocean)
20313  Deck leader (Ocean)
50509  Data controller (computers)
70504  Dental assistant
70503  Dental mechanic
70499  Dental specialist, eg. oral pathologist (n.e.c.)
70401  Dental surgeon/dentist
70502  Dental therapist
70599  Dental worker (n.e.c.)
70103  Dermatologist
40102  Designer (engineering)
80104  Detective
20303  Developer
50501  Development management (hardware)
50502  Development management (software)
20310  Development team leader/supervisor
20701  Development team worker
50111  Diamond drill team leader/supervisor
50112  Diamond drill worker
50110  Diamond driller
40501  Diecaster
40477  Diesel mechanic
40478  Diesel mechanic: apprentice
40476  Diesel mechanic: chargehand
40475  Diesel mechanic: foreman
70305  Dietician
60802  Diplomatic/political liaison officer
29911  Diver (Ocean)
40905  Disinestation worker
80105  Dog handler
80801  Domestic servant
21102  Dragline operator
21101  Dragline supervisor
29906  Drains cleaner
49994  Draughting technician
50994  Draughtsperson (architectural)
40794  Draughtsperson (chemical engineering)
40694  Draughtsperson (civil engineering)
40394  Draughtsperson (electrical engineering)
50194  Draughtsperson (geological)
40594  Draughtsperson (mechanical engineering)
29994  Draughtsperson (mining production, n.e.c.)
49994  Draughtsperson (n.e.c.)
50294  Draughtsperson (survey)
59994  Draughtsperson (technical services)
20401  Drill rig operator
40528  Drill sharpener
20405  Driller's assistant
20402  Driller: hand percussion/jackhammer
20403  Driller: hand (coal)
20404 Driller: opencast/large diameter
20499 Drilling worker (n.e.c.)
40527 Drillsmith
80908 Driver: ambulance (code B)
21103 Driver: bulldozer
80905 Driver: forklift
21109 Driver: haul truck (underground and opencast)
80911 Driver: heavy articulated motor vehicle (code EC)
80909 Driver: heavy motor vehicle eg. bus/ambulance (code C)
80907 Driver: light motor vehicle/car (code B)
80906 Driver: mobile industrial/agricultural equipment (code EB)
80903 Driver: motorcycle (code A)
80904 Driver: tractor (code EB)
80998 Driving instructor
30406 Dryerman
30702 Dump team leader/supervisor
30703 Dump worker
30701 Dumpsman
10907 Duplicator
70104 Ear, nose and throat specialist
10703 Economics assistant
10700 Economics management
10799 Economics worker (n.e.c.)
10702 Economist (n.e.c.)
10205 Economy controller
60901 Editor
60400 Educational management
60499 Educational/school worker (n.e.c.)
70306 EEG technician
40341 Electrical chargehand (other n.e.c.)
40301 Electrical engineer
40300 Electrical engineering management
40399 Electrical engineering worker (n.e.c.)
40340 Electrical foreman (other n.e.c.)
40310 Electrical technician
40342 Electrical tradesman (other n.e.c.)
40314 Electrician
40317 Electrician: aide
40315 Electrician: apprentice
40313 Electrician: chargehand
40312 Electrician: foreman
40316 Electrician: underground section
40318 Electrician: worker (n.e.c.)
40802 Electricity generator worker
40437 Electro mechanic/millwright/minewright
40311 Electronic technician
60500 Employee assistance programme management
19910 Encoder
40800 Energy systems management
40805 Energy systems officer
40801 Energy systems team leader/supervisor
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>40899</td>
<td>Energy systems worker (n.e.c.)</td>
</tr>
<tr>
<td>40201</td>
<td>Engineer (n.e.c.)</td>
</tr>
<tr>
<td>40205</td>
<td>Engineering assistant (n.e.c.)</td>
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<tr>
<td>40004</td>
<td>Engineering foreman (n.e.c.)</td>
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<tr>
<td>40202</td>
<td>Engineering inspector</td>
</tr>
<tr>
<td>40001</td>
<td>Engineering management (multi-disciplinary)</td>
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<tr>
<td>40099</td>
<td>Engineering management (n.e.c.)</td>
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<tr>
<td>49901</td>
<td>Engineering team leader (n.e.c.)</td>
</tr>
<tr>
<td>40299</td>
<td>Engineering technical worker (n.e.c.)</td>
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<tr>
<td>40203</td>
<td>Engineering technician (n.e.c.)</td>
</tr>
<tr>
<td>60905</td>
<td>Entertainer</td>
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<tr>
<td>51004</td>
<td>Environmental assistant</td>
</tr>
<tr>
<td>51007</td>
<td>Environmental construction supervisor</td>
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<tr>
<td>51008</td>
<td>Environmental construction worker</td>
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<td>Estate/township team leader/supervisor</td>
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<td>Estate/township worker (n.e.c.)</td>
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<td>Filing/records officer</td>
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<td>Filter operator/worker</td>
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<td>Filter team leader/supervisor</td>
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<td>Fire fighting/rescue trainer</td>
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<td>70800</td>
<td>First aid management/medical station superintendant</td>
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<td>First aid team leader/supervisor</td>
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<td>First aid trainer</td>
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<td>First aid training superintendent</td>
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70899  First aid worker (n.e.c.)
40428  Fitter and turner
40429  Fitter and turner: apprentice
40427  Fitter and turner: chargehand
40426  Fitter and turner: foreman
40433  Fitter (including machining): apprentice
40432  Fitter (including machining)
40431  Fitter (including machining): chargehand
40430  Fitter (including machining): foreman
40434  Fitter: operative (grade 1)
40435  Fitter: operative aide (grade 2)
40436  Fitter: worker (n.e.c.)
90301  Forester
90300  Forestry engineer
90399  Forestry worker
40502  Forger
40505  Founder
30599  Furnace worker (n.e.c.)
90501  Game ranger
40656  Ganger/plate/tracklayer (main line)
40480  Garage mechanic: aide
40481  Garage serviceman
40482  Garage worker (n.e.c.)
90102  Garden supervisor/groundsman
90199  Garden worker
40002  General engineering supervisor/senior foreman
49999  General engineering worker (n.e.c.)
00199  General management (n.e.c.)
00102  General manager (company)
00101  General manager (mine)
20305  General miner
70201  General practitioner
50103  Geochemist
50100  Geological management
50109  Geological observer/field assistant
50199  Geological worker (n.e.c.)
50101  Geologist
50108  Geography technician
50102  Geophysicist
21401  Grab operator
50408  Grade officer
60904  Graphic artist
30210  Grinderman/pulveriser
90102  Groundsman/garden supervisor
80500  Guest house/quarters management
36013  Guillotine operator
70105  Gynaecologist
80803  Hairdresser/barber
40654  Handyman (maintenance)
21001  Haulage team leader/supervisor
21099  Haulage/underground rail transport worker (n.e.c.)
70307  Health/food inspector
90502  Herdsman/stable hand
21302  Hoist driver
21399  Hoisting worker (n.e.c.)
90101  Horticulturist
79901  Hospital cleaner
10902  Hospital secretary
70002  Hospital superintendent
70324  Hospital worker/orderly
80505  Hostel management
80506  Hostel official
80507  Hostel team leader/supervisor
80501  Housekeeper/caretaker
60000  Humanities management (multi-disciplinary)
60099  Humanities management (n.e.c.)
69999  Humanities worker (n.e.c.)
20801  Hydraulic prop team leader/supervisor
20802  Hydraulic prop worker
40411  Hydraulic technician
40999  Hygiene services worker (n.e.c.)
60203  Induna/tribal representative
50701  Industrial engineer
50700  Industrial engineering management
50704  Industrial engineering officer
50702  Industrial engineering technician
50799  Industrial engineering worker (n.e.c.)
70106  Industrial physician
60202  Industrial relations assistant
60200  Industrial relations management
60201  Industrial relations practitioner
60299  Industrial relations worker (n.e.c.)
50599  Info services/computer worker (n.e.c.)
50516  Information centre management (computers)
50500  Information services management
40321  Instrument engineer
40325  Instrument mechanician (industrial)
40326  Instrument mechanician apprentice (industrial)
40324  Instrument mechanician chargehand (industrial)
40323  Instrument mechanician foreman (industrial)
40322  Instrument technician
10596  Insurance adviser
10500  Insurance management
10599  Insurance worker (n.e.c.)
70107  Internist/specialist physician
10315  Inventory controller
90400  Irrigation engineer
10317  Issuer (explosives)
10316  Issuer (stores, non-explosive)
60902  Journalist/writer
40602  Junior engineer (civil engineering)
40302  Junior engineer (electrical engineering)
40402  Junior engineer (mechanical engineering)
40207  Junior engineer (n.e.c)
90503  Kennel worker
30504  Kilnworker
80703  Kitchen worker
50406  Laboratory assistant
50400  Laboratory manager/superintendent
50405  Laboratory technician
60103  Labour controller
30506  Ladleworker
40346  Lamp room team leader /supervisor
40347  Lamp room worker
40345  Lampsman
90200  Land rehabilitation engineer
90201  Land rehabilitation supervisor
90299  Land rehabilitation worker
29905  Lasher/loader (n.e.c.)
80503  Laundry supervisor
80504  Laundry worker
30407  Leaching worker
20309  Learner miner
50409  Learner official (assay/chemistry)
40303  Learner official (electrical engineering)
40206  Learner official (engineering, n.e.c.)
50113  Learner official (geology)
40403  Learner official (mechanical engineering)
30105  Learner official (metallurgy)
21306  Lift operator
80705  Liquor outlet supervisor
36010  Lithographer
90599  Livestock worker (n.e.c.)
21106  Load haul dump driver
21004  Loader driver (rail)
21104  Loader driver (trackless)
81003  Loco driver (underground/main line - SPOORNET)
81004  Loco driver (not main line)
21002  Loco driver (underground)
21003  Loco guard (underground)
20603  Longwall sheerer operator
10317  Magazine master
50106  Magnetometer specialist
40653  Maintenance supervisor
10203  Management accountant
10812  Marketing assistant
10810  Marketing officer
10800  Marketing and sales management
10899  Marketing/sales worker (n.e.c.)
40626  Mason
40627  Mason aide
70308  Masseur/masseuse
70600  Matron/nursing services management
40414  Mechanic (ocean)
70402  Maxillo-facial and oral surgeon
40521  Mechanical charge hand
40401  Mechanical engineer
40400  Mechanical engineering management
40599  Mechanical engineering worker (n.e.c.)
40520  Mechanical foreman (other, n.e.c.)
20699  Mechanical rockbreaking worker (n.e.c.)
40410  Mechanical technician
40522  Mechanical tradesman (other, n.e.c.)
60908  Media technician
70001  Medical advisor
79901  Medical labourer
70201  Medical officer
70309  Medical orthotist/prosthetist
70310  Medical physicist
70199  Medical specialist (n.e.c.)
70800  Medical station superintendent/first aid management
70311  Medical technician
70312  Medical technologist
79999  Medical worker (n.e.c.)
70000  Medical/health care management (multi-disciplinary)
70099  Medical/health care management (n.e.c.)
20803  Meshing and lacing team leader/supervisor
20804  Meshing and lacing worker
11010  Messenger/postal worker
30103  Metallurgical official (n.e.c.)
30199  Metallurgical worker (n.e.c.)
30000  Metallurgical/plant management
30001  Metallurgical/plant superintendent
30002  Metallurgical/plant supervisor
30101  Metallurgist
30102  Metallurgy technician (extractive)
51006  Microscopist
30208  Milling worker
40437  Millwright/electro mechanic/minewright
21510  Mine construction team leader/supervisor (n.e.c.)
21599  Mine construction worker (n.e.c.)
00101  Mine manager
20002  Mine overseer
20101  Mine planning/valuation engineer
80103  Mine police/security guard
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>20099</td>
<td>Mine production management (n.e.c.)</td>
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<td>Mine production supervisor (n.e.c.)</td>
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<td>Mine production worker (n.e.c.)</td>
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<td>Mineralogist</td>
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<td>Miner's assistant (cheesa)</td>
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<td>Nurse (enrolled/staff)</td>
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<td>Nurse (registered) all categories n.e.c.</td>
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<td>Occupational hygienist</td>
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<td>70110</td>
<td>Ophthalmologist</td>
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<tr>
<td>70316</td>
<td>Optical dispenser</td>
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70315  Optician/optometrist
70501  Oral hygienist
70324  Orderly/hospital worker
21404  Rockpass/Orepass/box controller
70403  Orthodontist
70111  Orthopaedic surgeon
70317  Orthoptist
70113  Paediatrician
40637  Painter and decorator/maintenance hand
40638  Painter and decorator (worker n.e.c.)
40470  Panelbeater
35911  Paper maker
35900  Paper manufacturing management
35912  Paper tester
70112  Pathologist (medical)
40503  Patternmaker
40629  Paver
10404  Paymaster
10402  Payroll administrator
10401  Payroll controller
10400  Payroll management
10499  Payroll worker (n.e.c.)
50517  PC programmer/product specialist
60905  Performing artist
70404  Perodontist
10905  Personal assistant/secretary
80899  Personal care worker (n.e.c.)
60102  Personnel assistant/masiza
60100  Personnel management
60101  Personnel officer/practitioner
60199  Personnel worker (n.e.c.)
70799  Pharmaceutical worker (n.e.c.)
70701  Pharmacist
60906  Photographer
70318  Physiologist
70319  Physiotherapist
81103  Pilot (aircraft)
21505  Pipes and tracks team leader/supervisor
21506  Pipes and tracks worker
20703  Pit worker
40003  Planned maintenance foreman
40100  Planning management (engineering)
20100  Planning management (mining)
20104  Planning observer
20102  Planning officer
40101  Planning officer (engineering)
40199  Planning worker (engineering n.e.c.)
20199  Planning worker (mining n.e.c.)
30204  Plant team leader/supervisor
30299  Plant worker (n.e.c.)
30201  Plant/reduction official
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<td>40448</td>
<td>Plater</td>
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<td>40447</td>
<td>Plater/plumber/boilermaker</td>
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<td>Plater/plumber/boilermaker apprentice</td>
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<td>Plater/plumber/boilermaker chargehand</td>
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<td>Plater/plumber/boilermaker foreman</td>
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<td>Plater/plumber/boilermaker worker (n.e.c.)</td>
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<td>Plater/welder</td>
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<td>Plater/welder apprentice</td>
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<td>Plater/welder chargehand</td>
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<td>40453</td>
<td>Plater/welder foreman</td>
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<td>Plater/welder worker (n.e.c.)</td>
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<td>Plate/track layer/ganger (main line)</td>
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<td>60404</td>
<td>Play school supervisor</td>
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<td>Plumber</td>
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<td>Plumber aide</td>
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<td>Press operator</td>
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<td>Printing machine operator</td>
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<td>Printing supervisor</td>
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<td>Printing worker (n.e.c.)</td>
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<td>Producer/director (creative arts)</td>
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<td>Production/section/underground manager</td>
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<td>79992</td>
<td>Project manager/officer (medical/health n.e.c.)</td>
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<td>Project manager/officer (mining n.e.c.)</td>
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<td>Project manager/officer (scientific/technical n.e.c.)</td>
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<td>Property/mining rights management</td>
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<td>10602</td>
<td>Property/mining rights officer</td>
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<tr>
<td>10699</td>
<td>Property/mining rights worker (n.e.c.)</td>
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</tbody>
</table>
50107    Prospector
70309    Prosthetist/medical orthotist
70405    Prosthodontist
70115    Psychiatrist
60501    Psychologist (clinical)
60104    Psychologist (industrial)
60803    Public relations assistant
60800    Public relations management
60801    Public relations officer
60899    Public relations worker (n.e.c.)
30210    Pulveriser/grinderman
40531    Pump team leader/supervisor
40532    Pump worker
30104    Pupil metallurgist
10312    Purchaser/buyer
10300    Purchasing/stores management
40613    Quantity surveyor
20307    Quarryworker
79999    Radio/medic (ocean)
40327    Radio mechanician
11012    Radio operator
70321    Radiographer
70116    Radiologist
          Radiation Protection Officer
81000    Rail transport management
81001    Rail transport officer
81002    Rail transport team leader
81099    Rail transport worker (n.e.c.)
20607    Raise/tunnel borer operator
20606    Raise/tunnel borer supervisor
10313    Receiver (stores)
10906    Receptionist/typist/word processor operator
10904    Records/filing officer
30099    Reduction/beneficiation/manufacturing/plant management (n.e.c.)
39999    Reduction/beneficiation/manufacturing worker (n.e.c.)
30201    Reduction/plant official
21403    Reeler
30601    Refiner
30699    Refining worker (n.e.c.)
40415    Refrigeration plant operator
40414    Refrigeration plant team leader/supervisor
40412    Refrigeration/air conditioning engineer
40413    Refrigeration/air conditioning mechanic
40906    Refuse collector
70202    Registrar (medical)
80200    Rescue training service management
80202    Rescue/fire fighting officer
80203    Rescue/fire fighting team leader/supervisor
80298    Rescue/fire fighting trainer
80299    Rescue/fire fighting worker (n.e.c.)
99997    Researcher (agriculture n.e.c.)
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>49997</td>
<td>Researcher (engineering n.e.c.)</td>
</tr>
<tr>
<td>09997</td>
<td>Researcher (general management n.e.c.)</td>
</tr>
<tr>
<td>69997</td>
<td>Researcher (humanities n.e.c.)</td>
</tr>
<tr>
<td>79997</td>
<td>Researcher (medical n.e.c.)</td>
</tr>
<tr>
<td>39997</td>
<td>Researcher (metallurgy/beneficiation/manufacturing n.e.c.)</td>
</tr>
<tr>
<td>29997</td>
<td>Researcher (mining production n.e.c.)</td>
</tr>
<tr>
<td>50397</td>
<td>Researcher (rock mechanics)</td>
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<tr>
<td>59997</td>
<td>Researcher (scientific/technical n.e.c.)</td>
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<tr>
<td>89997</td>
<td>Researcher (service occupation n.e.c.)</td>
</tr>
<tr>
<td>40508</td>
<td>Rigger and ropeman</td>
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<tr>
<td>40509</td>
<td>Rigger and ropeman apprentice</td>
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<tr>
<td>40507</td>
<td>Rigger and ropeman chargehand</td>
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<td>40506</td>
<td>Rigger and ropeman foreman</td>
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<td>40511</td>
<td>Rigger and ropeman worker (n.e.c.)</td>
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<td>40510</td>
<td>Rigger aide</td>
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<tr>
<td>40655</td>
<td>Road builder</td>
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<td>80900</td>
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<td>80901</td>
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<td>80902</td>
<td>Road transport team leader</td>
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<td>80999</td>
<td>Road transport worker (n.e.c.)</td>
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<tr>
<td>20799</td>
<td>Rock breaking worker (n.e.c.)</td>
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<tr>
<td>20402</td>
<td>Rockdrill operator</td>
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<tr>
<td>50301</td>
<td>Rock mechanics engineer</td>
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<td>50300</td>
<td>Rock mechanics management</td>
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<tr>
<td>50302</td>
<td>Rock mechanics officer</td>
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<tr>
<td>50399</td>
<td>Rock mechanics worker (n.e.c.)</td>
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<tr>
<td>20899</td>
<td>Rock support worker (n.e.c.)</td>
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<tr>
<td>20806</td>
<td>Roof bolt machine operator</td>
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<tr>
<td>20807</td>
<td>Roof bolt worker</td>
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<tr>
<td>29909</td>
<td>Roughneck (ocean)</td>
</tr>
<tr>
<td>81201</td>
<td>Roustabout (ocean)</td>
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<tr>
<td>40523</td>
<td>Rubber reliner</td>
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<tr>
<td>50802</td>
<td>Safety/risk auditor</td>
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<tr>
<td>50800</td>
<td>Safety/health/environment/risk management</td>
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<tr>
<td>50803</td>
<td>Safety/health/risk observer assistant</td>
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<tr>
<td>50801</td>
<td>Safety/health/risk officer</td>
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<tr>
<td>50899</td>
<td>Safety/health/risk worker (n.e.c.)</td>
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<tr>
<td>10811</td>
<td>Sales representative</td>
</tr>
<tr>
<td>10319</td>
<td>Salvage yard aide</td>
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<tr>
<td>10320</td>
<td>Salvage and reclamation worker (surface)</td>
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<tr>
<td>29907</td>
<td>Salvage and reclamation worker (underground)</td>
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<tr>
<td>50204</td>
<td>Sample worker</td>
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<tr>
<td>50203</td>
<td>Sampler</td>
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<tr>
<td>50206</td>
<td>Sand blaster</td>
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<tr>
<td>40904</td>
<td>Sanitation worker</td>
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<tr>
<td>40540</td>
<td>Saw doctor</td>
</tr>
<tr>
<td>40542</td>
<td>Saw sharpener</td>
</tr>
<tr>
<td>40541</td>
<td>Sawmill mechanic</td>
</tr>
<tr>
<td>35710</td>
<td>Sawyer</td>
</tr>
<tr>
<td>60401</td>
<td>School principal</td>
</tr>
<tr>
<td>50000</td>
<td>Scientific/technical management (multi-disciplinary)</td>
</tr>
</tbody>
</table>
50099 Scientific/technical management (n.e.c.)
59999 Scientific/technical worker (n.e.c.)
20902 Scraper winch bell operator
20901 Scraper winch driver/operator
20999 Scraping worker (n.e.c.)
30209 Screensman
81299 Sea transport worker (n.e.c.)
10999 Secretarial/administrative worker (n.e.c.)
10900 Secretarial/administration management
10905 Secretary/personal assistant
29901 Section leader
20001 Section/production/underground manager
11112 Securities officer
80103 Security guard/mine police
80101 Security inspector/officer
80100 Security management
80102 Security supervisor (eg sergeant)
80199 Security worker (n.e.c.)
50105 Sedimentologist
50306 Seismic network technician
50305 Seismologist
21107 Self-propelled machine driver/operator (n.e.c.)
89999 Service worker (n.e.c.)
80000 Services management (multi-disciplinary)
80099 Services management (n.e.c.)
40903 Sewage plant operator
20301 Shaft foreman
21501 Shaft sinker
21503 Shaft timberman worker
21502 Shaft timberman/timberman
29909 Shakerhand (ocean)
11111 Share transfer officer
40459 Sheetmetal worker
20302 Shift boss
20314 Shift foreman
40526 Shot blast operator
20804 Shotcrete worker
21105 Shovel operator
81007 Shunter
21108 Shuttlecar driver
81008 Signaller
40639 Signwriter
21303 Skipman
30704 Slimes dam team leader/supervisor
30705 Slimes dam worker
30799 Slimes dam/dump worker (n.e.c.)
30501 Smelter
30502 Smelter team leader/supervisor
30503 Smelter worker
60502 Social worker
60602 Solicitor/attorney/conveyancer
30206  Sorter
50407  Spectrographer
70322  Speech therapist/audiologist
61099  Sports worker (n.e.c.)
61002  Sports/recreation assistant
61000  Sports/recreation management
61001  Sports/recreation officer
90502  Stable hand/herdsman
21402  Stacker operator
21509  Stage worker
10311  Standards officer
50602  Statistical officer
50699  Statistical worker (n.e.c.)
50601  Statistician
50600  Statistics management
81201  Stevedore
11110  Stockbroker
81005  Stoker/fireman
29904  Stone packer
20311  Stope team leader/supervisor
20702  Stope team worker
20304  Stoper
10314  Storekeeper
10310  Stores controller
10316  Stores issuer (non-explosive)
10313  Stores receiver
10399  Stores worker (n.e.c.)
10300  Stores/purchasing management
50304  Strata control observer
50303  Strata control officer
00201  Strategic planning analyst
00200  Strategic planning management
00299  Strategic planning worker (n.e.c.)
30408  Striper operator
19993  Student (administrative/financial n.e.c.)
99993  Student (agriculture n.e.c.)
49993  Student (engineering n.e.c.)
50193  Student (geology)
69993  Student (humanities n.e.c.)
79993  Student (medical)
39993  Student (metallurgy/beneficiation/manufacturing n.e.c.)
29993  Student (mining production n.e.c.)
59993  Student (scientific/technical n.e.c.)
89993  Student (service occupation n.e.c.)
29902  Supervisor's assistant (underground)
70399  Supplementary medical worker (n.e.c.)
70117  Surgeon (general)
50200  Survey management
50299  Survey worker (n.e.c.)
50201  Surveyor (land)
50202  Surveyor (mine)
29903 Sweeper/vamper
10203 Systems accountant
50504 Systems analyst
50512 Systems/network programmer
34510 Tailor
80402 Tea maker/office cleaner
60404 Teacher (nursery education)
60403 Teacher (primary education)
60402 Teacher (secondary education)
20312 Team leader-supervisor (other mining production work)
40604 Technical assistant engineering (n.e.c.)
20211 Technical assistant mining (n.e.c.)
50001 Technical services management
59901 Technical services department (TSD) officer (n.e.c.)
11099 Telecommunications worker (n.e.c.)
11011 Telephonist
60907 Television cameraman
70118 Thoracic surgeon
35999 Timber, pulp and paper worker (n.e.c.)
10403 Timekeeper
21511 Tip attendant
21405 Tip team leader-supervisor
21406 Tip worker
40512 Toolmaker
20312 Toolpusher (ocean)
60804 Tour guide
40612 Town planner
49994 Tracer (n.e.c.)
21101 Trackless machine team leader-supervisor
21198 Trackless machine trainer (eg dragline)
21199 Trackless machine worker (n.e.c.)
40656 Track/plate layer/ganger (main line)
81006 Train guard
19998 Trainer (administrative/financial n.e.c.)
99998 Trainer (agriculture n.e.c.)
40798 Trainer (chemical engineering)
40698 Trainer (civil engineering)
50598 Trainer (computers)
81398 Trainer (crane driving)
40398 Trainer (electrical engineering)
80298 Trainer (fire fighting/rescue)
70898 Trainer (first aid)
49998 Trainer (general engineering n.e.c.)
99998 Trainer (general management n.e.c.)
69998 Trainer (humanities, n.e.c.)
40598 Trainer (mechanical engineering)
79998 Trainer (medical n.e.c.)
39998 Trainer (metallurgy/beneficiation/manufacturing n.e.c.)
29998 Trainer (mining production n.e.c.)
70698 Trainer (nursing)
80998 Trainer (road driving)
50898  Trainer (safety/loss control)
59998  Trainer (scientific/technical n.e.c.)
80198  Trainer (security)
89998  Trainer (service occupation n.e.c.)
60398  Trainer/instructor (n.e.c.)
60302  Training assistant
60300  Training management
60301  Training officer (n.e.c.)
60399  Training worker (n.e.c.)
60903  Translator
81399  Transport worker (n.e.c.)
60203  Tribal representative/induna
10906  Typist/word processor operator/receptionist
09999  Unclassified occupation (unknown/no specific skill)
10906  Typist/word processor operator/receptionist
20001  Underground/production/section manager
30401  Uranium plant official
30409  Uranium plant worker
30410  Ventilation/construction team leader
30411  Ventilation/construction worker
70119  Urologist
50518  User support (computers)
10510  Valuator
??????  Ventilation/construction team leader
??????  Ventilation/construction worker
80704  Waiter/waitress
40900  Water, effluent and sanitation management
40907  Water, effluent and sanitation officer
40901  Water, effluent and sanitation team leader/supervisor
40902  Water treatment plant operator
10395  Weighbridge attendant
40456  Welder
60504  Welfare assistant
60503  Welfare officer
60599  Welfare worker (n.e.c.)
40526  Winch Operator\Driver
40525  Winch transporter team leader
40524  Winch transporter/erector
21301  Winding engine driver (licensed)
20406  Wireline operators (ocean)
10906  Word processor operator/typist/receptionist
50707  Work study observer/assistant
50706  Work study officer
35913  Wrapper
60902  Writer/journalist
10318  Yard supervisor
10321  Yard worker (n.e.c.)
ITEM 13. TOTAL EXPERIENCE IN CURRENT OCCUPATION

YY/MM

ITEM 14. WAS INJURED CARRYING OUT NORMAL DUTIES AT TIME OF ACCIDENT?

Yes  No

Normal duties implies that the job/duties/functions that the injured person was carrying out at the time of the accident was within his job description, e.g. if a boilermaker was welding, this is his normal duty. If, however, he was making electrical repairs, this is not his normal duty.

ITEM 15. DATE FIRST EMPLOYED WITH CURRENT EMPLOYER

YYYY/MM/DD

ITEM 16. DATE LAST SHIFT WORKED

YYYY/MM/DD

ITEM 17. DATE RESUMED WORK

YYYY/MM/DD

If the person has not returned to work at the time of submitting this form, the manager is to inform the Inspector of Mines when the person does in fact return to work by completing the form “Report on date resumed work” as prescribed in Appendix 9. See Regulation 23.2 (3)

NOTE: This form is to be completed and submitted monthly in respect of all injured persons who have not yet returned to work that month, as well as those that did not return to work, with the exception of the totally disabled who will not return to work.

ITEM 18. IF FATAL, DATE OF DEATH

YYYY/MM/DD

If a person dies more than 12 months after the date of the accident, the Inspector of Mines must be informed accordingly, but the accident will not be included in statistics.
SAMRASS 2 FORM
SECTION F: DETAILS OF INJURY

This Section need not be completed for a Dangerous Occurrence – refer to example below:

<table>
<thead>
<tr>
<th>SECTION F: INJURY DETAILS – THIS SECTION NEED NOT BE COMPLETED FOR A DANGEROUS OCCURRENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Task: (person injured or killed while performing)</td>
</tr>
<tr>
<td>2. Activity: (injured or killed while…)</td>
</tr>
<tr>
<td>3. Nature of injury</td>
</tr>
<tr>
<td>4. Part of body injured</td>
</tr>
<tr>
<td>5. Type of accident of individual</td>
</tr>
<tr>
<td>6. Allocated days lost</td>
</tr>
</tbody>
</table>

ITEM 1. TASK: PERSON INJURED OR KILLED WHILE PERFORMING

This refers to the task/assignment being carried out or performed at the time of the accident i.e. a piece of work being done, a job or a duty. Make use of the full 6 digit code.

1A MINING/BREAKING ROCK/CUTTING/EXCAVATING

- **Digging, drilling, dredging**
  - 1A0101 Coal cutters/shearers
  - 1A0102 Continuous miner
  - 1A0103 Diamond dredges/drilling machines

- **Drilling**
  - 1A0201 Hydraulic
  - 1A0202 Pneumatic
  - 1A0203 Electric

- **Preparing the face**
  - 1A0301 Treating misfires
  - 1A0302 Marking the face

- **Charging**
  - 1A0401 Loading/connecting explosives

- **Blasting**
1A0501 Initiation

**Cleaning (broken rock)**
1A0601 Scraping (scraper winch)
1A0602 Mechanical loading
1A0603 Hand loading (lashing)
1A0604 Waterjet
1A0605 Sweeping
1A0606 Vacuum

**Make safe (includes barring)**
1A0701 Visually examining
1A0702 Barring

**Installing**
1A0801 Timber packs
1A0802 Timber elongates
1A0803 Hydraulic support
1A0804 Backfill
1A0805 Rockbolting
1A0806 Meshing/lacing
1A0807 Concrete packs
1A0808 Sandwich/composite packs
1A0809 Sticks, timberpoles

**Removing support**
1A0901 Timber packs
1A0902 Timber elongates
1A0903 Hydraulic support
1A0904 Backfill
1A0905 Rockbolting
1A0906 Meshing/lacing
1A0907 Concrete packs
1A0908 Sandwich/composite packs
1A0909 Sticks, timberpoles

**1B TRANSPORTING**
**Transporting of mineral/rock/ore by**

1B0101 Rail transport
1B0102 Free-steered vehicle (rubber tyres or catapillar tracks)
1B0103 Conveyors
1B0104 Ore pass
1B0105 Boxfront/chute
1B0106 Dragline
1B0107 Skips

**Transporting of people by**

1B0201 Rail transport
1B0202 Trackless mobile vehicle
1B0203 Shaft transport
1B0204 Self transport (person walking, running, ascending/descending etc)
1B0205 Conveyors
1B0206 Chairlift
1B0207 Magic carpet

**Transporting of materials/equipment by**

1B0301 Rail transport
1B0302 Shaft transport
1B0303 Free-steered vehicle rubber tyres or catapillar tracks)
1B0304 Winches
1B0305 Mono-rop
1B0306 Mono-rail
1B0307 Moving trackless mobile equipment, e.g. moving a rockbolter
    or roadheader between working places
1B0308 Moving trackbound equipment

**Material handling (loading, unloading, stacking)**

1B0401 Loading
1B0402 Unloading
1B0403 Stacking
1B0404 Lifting
1C  ENGINEERING TASKS
1C0101  Maintenance of equipment
1C0201  Repairing equipment
1C0301  Assembling equipment
1C0401  Installation and erection of equipment e.g. pipes, winches
1C0501  Construction/building permanent structure e.g. concrete, steelwork
1C0601  Manufacturing e.g. sheet metal, carpentry
1C0701  Lifting e.g. cranes, block and tackle, chainblock

1D  TREATING ROCK/BENEFICIATION
  Mechanical or chemical processes
1D0101  Crushing
1D0102  Grinding
1D0103  Sizing (screening)
1D0104  Washing
1D0105  Flotation
1D0201  Chemical treatment
1D0301  Pyrometallurgy
1D0401  Construction of waste dumps or slime dams
1D0501  Brick curing (ovens or stacks)

1E  ANCILLARY TASKS
  Mine infrastructure and services
1E0101  Survey
1E0102  Geology
1E0103  Rock engineering/mechanics
1E0104  Training
1E0105  Stores
  d Occupational Hygiene control services
1E0201  Ventilation
1E0202  Dust control
1E0203  Water management
1E0204  Illumination
1E0205  Gas monitoring/control
ITEM 2. ACTIVITY (INJURED OR KILLED WHILE...)

This is the activity (verb) i.e. when the injured is the doer of an action at the time of the accident.

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2001</td>
<td>Adjusting/assembling/stripping equipment or machinery</td>
</tr>
<tr>
<td>2002</td>
<td>Adjusting/changing (not equipment)</td>
</tr>
<tr>
<td>2003</td>
<td>Aligning</td>
</tr>
<tr>
<td>2004</td>
<td>Analysing</td>
</tr>
<tr>
<td>2005</td>
<td>Annealing</td>
</tr>
<tr>
<td>2001</td>
<td>Assembling/stripping/adjusting equipment or machinery</td>
</tr>
<tr>
<td>2007</td>
<td>Assembling (not equipment)</td>
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<tr>
<td>2008</td>
<td>Attaching</td>
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<td>2009</td>
<td>Backfilling</td>
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<tr>
<td>2010</td>
<td>Ballasting</td>
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<tr>
<td>2011</td>
<td>Barring</td>
</tr>
<tr>
<td>2012</td>
<td>Bending/throwing/reaching</td>
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<tr>
<td>2013</td>
<td>Bleeding lines</td>
</tr>
<tr>
<td>2014</td>
<td>Blocking</td>
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<tr>
<td>2015</td>
<td>Blowing over</td>
</tr>
<tr>
<td>2016</td>
<td>Boiling</td>
</tr>
<tr>
<td>2017</td>
<td>Bolting</td>
</tr>
<tr>
<td>2018</td>
<td>Breaking (not rock/slag/concrete)</td>
</tr>
<tr>
<td>2019</td>
<td>Breaking (rock/slag/concrete)</td>
</tr>
<tr>
<td>2020</td>
<td>Burning explosives</td>
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<tr>
<td>2021</td>
<td>Burning material</td>
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<tr>
<td>2022</td>
<td>Carrying</td>
</tr>
<tr>
<td>2023</td>
<td>Casting/tapping/skimming</td>
</tr>
</tbody>
</table>
Cementation
Changing/adjusting (excluding equipment)
Changing clothes
Changing equipment/material
Charging batteries
Charging up
Checking/inspecting machinery, vehicles or equipment
Checking/inspecting (excluding machinery/vehicles/equipment)
Clamping
Cleaning other than equipment, machinery and footwall
Cleaning footwall task
Cleaning machinery/equipment
Clearing
Clearing obstructions
Clerical work
Climbing
Closing/opening (excluding doors/valves)
Closing/opening doors
Closing/opening valves
Collaring hole
Connect/disconnect electricity
Connecting equipment/machinery/hoses
Construct/erect structures
Cooking/making tea
Covering
Coupling/uncoupling electricity/equipment
Coupling/uncoupling (excluding electricity, equipment, machinery, hoses and valves)
Crawling
Crushing
Cutting with gas torch
Cutting with tools
Digging
Disconnect/connect electricity
Dislodging
Dismantling/demolishing
Diving
Draining
Drawing rock
Drilling (electrical)
Drinking/eating
Dumping
Driving
Eating/drinking
Empty/fill containers or hoppers
Entering/leaving conveyance
Erect/construct structures
Equipping
Examining
Exercising/sport
Extending
Extracting
Falling
Fastening
Fill/ empty containers or hoppers
Filling
Firing furnace/bricks etc.
| 3077 | Fitting          |
| 2078 | Flushing        |
| 2079 | Forging         |
| 2080 | Grading         |
| 2081 | Greasing/lubricating |
| 2082 | Grinding        |
| 2083 | Grouting        |
| 2084 | Guarding        |
| 2085 | Guiding         |
| 2086 | Hammering       |
| 2087 | Handling        |
| 2088 | Handling cable  |
| 2089 | Hanging         |
| 2090 | Hoisting men/material |
| 2091 | Hoisting rock   |
| 2092 | Heating         |
| 2093 | Hitting/striking|
| 2094 | Holding         |
| 2095 | Hooking         |
| 2096 | Inflating       |
| 2097 | Inserting       |
| 2098 | Inspecting/checking of machinery, vehicles or equipment |
| 2099 | Inspecting/checking (excluding machinery/vehicles or equipment) |
| 2100 | Installing equipment/machinery |
| 2101 | Installing (excluding support/bar/wall/machinery) |
| 2102 | Joining         |
| 2103 | Jumping         |
| 2104 | Kicking         |
| 2105 | Kneeling        |
| 2106 | Lashing         |
| 2107 | Laying          |
| 2108 | Leaving/entering conveyance |
| 2109 | Levelling       |
| 2110 | Lifting/lowering by hand |
| 2111 | Lifting/lowering/raising with machinery |
| 2112 | Lighting        |
| 2113 | Lining/relining |
| 2114 | Loading/offloading |
| 2115 | Loosening       |
| 2116 | Lowering/lifting by hand |
| 2117 | Lowering/lifting/raising with machinery |
| 2118 | Lubricating/greasing |
| 2119 | Machining       |
| 2120 | Making tea/cooking |
| 2121 | Marking off     |
| 2122 | Marking off drill holes |
| 2123 | Measuring       |
| 2124 | Mixing (excluding concrete) |
| 2125 | Mixing concrete |
| 2126 | Moving objects  |
| 2127 | Nailing         |
| 2128 | Offloading/loading |
| 2129 | Opening/closing (excluding doors/valves) |
| 2130 | Opening/closing doors |
| 2131 | Opening/closing valves |
| 2132 | Opening equipment/tools |
2130  Operating track bound vehicles  
2131  Packing  
2132  Painting  
2133  Parking  
2134  Patrolling  
2135  Pegging  
2136  Picking  
2137  Placing  
2138  Plastering  
2139  Plugging  
2140  Positioning  
2141  Pouring  
2142  Preparing  
2143  Preparing face (task)  
2144  Profile cutting  
2145  Projecting  
2146  Pulling  
2147  Pumping  
2148  Pushing  
2149  Raising/lowering/lifting with machinery  
2150  Reaching/throwing/bending  
2151  Reaming  
2152  Reclaiming material  
2153  Reclaiming/sweeping/vamping  
2154  Reconditioning  
2155  Refueling  
2156  Relining/lining  
2157  Removing (excluding support, equipment and machines)  
2158  Removing equipment/machinery  
2159  Removing support  
2160  Repairing  
2161  Replacing  
2162  Rerailing  
2163  Resetting  
2164  Reversing  
2165  Riding (track bound vehicles)  
2166  Riding (trackless vehicles)  
2167  Rolling (not self)  
2168  Rotating (not self)  
2169  Routing  
2170  Running  
2171  Sampling  
2172  Sandblasting  
2173  Sanding  
2174  Sawing  
2175  Scraping  
2176  Setting  
2177  Sharpening  
2178  Shoveling  
2179  Showering  
2180  Shunting  
2181  Signaling  
2182  Sitting/standing/waiting (person in stationery position)  
2183  Skimming/casting/tapping  
2184  Sliding  
2185  Slinging
| 2186  | Soldering          |
| 2187  | Sorting           |
| 2188  | Sounding/testing  |
| 2189  | Spacing           |
| 2190  | Spinning          |
| 2191  | Splicing          |
| 2192  | Sport/exercising  |
| 2193  | Spotting          |
| 2194  | Spragging         |
| 2195  | Standing/sitting/waiting (person in stationery position) |
| 2196  | Starting          |
| 2197  | Steering          |
| 2198  | Stemming/tamping  |
| 2199  | Stopping (not self) |
| 2200  | Straightening (not self) |
| 2201  | Striking/hitting  |
| 2202  | Stripping/assembling/adjusting equipment or machinery |
| 2203  | Supervising       |
| 2204  | Sumping           |
| 2205  | Surveying         |
| 2206  | Sweeping/brushing |
| 2207  | Sweeping/reclaiming/vamping |
| 2208  | Swimming          |
| 2209  | Switching (rail)  |
| 2210  | Switching (reference) |
| 2211  | Tamping/stemming  |
| 2212  | Tapping/casting/skimming |
| 2213  | Tempering         |
| 2214  | Tensioning        |
| 2215  | Testing           |
| 2216  | Testing (excluding equipment) |
| 2217  | Testing/sounding  |
| 2218  | Throwing/reaching/bending |
| 2219  | Tightening        |
| 2220  | Timbering         |
| 2221  | Tipping           |
| 2222  | Training (conveyor belt) |
| 2223  | Tramming          |
| 2224  | Trimming          |
| 2225  | Turning on/off    |
| 2226  | Twisting (person) |
| 2227  | Uncoupling/coupling electricity etc. |
| 2228  | Uncoupling/coupling (other than electricity, equipment, machinery, hoses and valves) |
| 2229  | Vamping/sweeping/reclaiming |
| 2230  | Waiting/standing/sitting (person in stationery position) |
| 2231  | Walking           |
| 2232  | Warning           |
| 2233  | Washing           |
| 2234  | Watering          |
| 2235  | Wedging           |
| 2236  | Welding (electric) |
| 2237  | Welding (gas)     |
ITEM 3.  NATURE OF INJURY

In some cases the injured person suffers different types of injuries to different body parts. In such cases the injury resulting in the most days lost must be used, unless it can be classified as multiple to the whole body.

A  Amputation
B  Abrasion
C  Burn (flame)
D  Burn (chemical)
E  Burn (steam/hot substance)
F  Concussion
G  Crushing (injury)
H  Contusion bruise
I  Dislocation
J  Drowning (use unspecified code 99)
K  Dermatitis
L  Burn (electric)
M  Fracture
N  Foreign body/splinter
P  Gassing (use unspecified code 99)
Q  Heat exhaustion
R  Heat stroke
S  Hernia
T  Laceration
U  Multiple injury
V  Poisoning (use unspecified code 99)
W  Puncture
X  Asphyxiation (use unspecified code 99)
Y  Sprain/strain
Z  Other

AB  Blindness

NB. Incapacitation/unconsciousness see appendix 14 for explanation

ITEM 4.  PART OF BODY INJURED

Head/face and neck

01  Skull and scalp (occipital, frontal, maxilla)
02  Ear (malleus, otitis, barotrauma)
03  Eyes and orbit (eye socket)

Note: where blindness results, use code AB in Nature of Injury (ITEM 3) i.e. AB03 = 6000 days lost

04  Nose and sinuses
05  Face (upper jaw, zygoma (cheekbone))
06  Lower jaw (teeth, mandible(lower jaw), ramus)
07  Neck (throat)
09  Multiple injuries to head, face and neck
60  Brain

Trunk
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Thorax (chest - excluding spinal region)</td>
</tr>
<tr>
<td>11</td>
<td>Thoracic (chest, spinal region, lungs, sternum, ribs)</td>
</tr>
<tr>
<td>12</td>
<td>Abdomen (including lumbar spine, back, vertebrae)</td>
</tr>
<tr>
<td>13</td>
<td>Anterior abdominal wall</td>
</tr>
<tr>
<td>14</td>
<td>Pelvic girdle (sacrum, coccyx, buttocks, hip)</td>
</tr>
<tr>
<td>15</td>
<td>External genital area (scrotum)</td>
</tr>
<tr>
<td>18</td>
<td>Other (specify)</td>
</tr>
<tr>
<td>19</td>
<td>Multiple injuries to trunk</td>
</tr>
<tr>
<td>20</td>
<td>Scapula (shoulder blade)</td>
</tr>
<tr>
<td>21</td>
<td>Collar bone (clavicle)</td>
</tr>
<tr>
<td>22</td>
<td>Shoulder (acromion)</td>
</tr>
</tbody>
</table>

**Arms and hands**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Forearm (ulna, radius, extensor (muscle), indicis)</td>
</tr>
<tr>
<td>24</td>
<td>Elbow</td>
</tr>
<tr>
<td>25</td>
<td>Arm</td>
</tr>
<tr>
<td>26</td>
<td>Both arms</td>
</tr>
<tr>
<td>29</td>
<td>Multiple injuries to one arm only</td>
</tr>
<tr>
<td>30</td>
<td>Wrist (scaphoid, flexor, carpus (muscle), colles)</td>
</tr>
<tr>
<td>31</td>
<td>Palm (thenar)</td>
</tr>
<tr>
<td>32</td>
<td>Back of hand (including metacarpal bones, dorsum)</td>
</tr>
<tr>
<td>33</td>
<td>Thumb</td>
</tr>
<tr>
<td>34</td>
<td>Single finger</td>
</tr>
<tr>
<td>35</td>
<td>Thumb plus one or more fingers</td>
</tr>
<tr>
<td>36</td>
<td>Two or more fingers (excluding thumb)</td>
</tr>
<tr>
<td>37</td>
<td>Both hands injured</td>
</tr>
<tr>
<td>39</td>
<td>Multiple injuries to one hand (hand general)</td>
</tr>
</tbody>
</table>

**Legs and feet**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Thigh (femur)</td>
</tr>
<tr>
<td>41</td>
<td>Knee joint (including patella)</td>
</tr>
<tr>
<td>42</td>
<td>Leg injured below the knee (fibula, tibia, shin)</td>
</tr>
<tr>
<td>43</td>
<td>Ankle (cuneiform, calcaneus, talus, cuboid, heel)</td>
</tr>
<tr>
<td>44</td>
<td>Foot (including toes)</td>
</tr>
<tr>
<td>45</td>
<td>Foot (excluding toes), metatarsal</td>
</tr>
<tr>
<td>46</td>
<td>Toes (one or more)</td>
</tr>
<tr>
<td>47</td>
<td>Whole of lower limb (whole leg)</td>
</tr>
<tr>
<td>48</td>
<td>Both feet</td>
</tr>
<tr>
<td>49</td>
<td>Both lower limbs (legs)</td>
</tr>
</tbody>
</table>

**Multiple**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Multiple injuries to head, face, neck and trunk</td>
</tr>
<tr>
<td>51</td>
<td>Multiple injuries to head, face, neck and limbs</td>
</tr>
<tr>
<td>52</td>
<td>Multiple injuries to the entire body</td>
</tr>
<tr>
<td>53</td>
<td>Multiple injuries to the trunk and upper limb(s)</td>
</tr>
<tr>
<td>54</td>
<td>Multiple injuries to the trunk and lower limb(s)</td>
</tr>
<tr>
<td>55</td>
<td>Multiple injuries to the upper and lower limb(s)</td>
</tr>
<tr>
<td>56</td>
<td>Multiple injuries to the trunk, lower limbs and upper limbs</td>
</tr>
<tr>
<td>99</td>
<td>UNSPECIFIED</td>
</tr>
</tbody>
</table>
ITEM 5.  TYPE OF ACCIDENT OF INDIVIDUAL

F  One person killed (allocate 6000 days lost.)

I  One person reportably injured

T  One person totally disabled for own occupation, e.g. paraplegic/quadriplegic/deaf/blind/permanently bedridden/permanently totally disabled.

ITEM 6.  ALLOCATED DAYS LOST

The allocated days lost must be completed according to the nature of injury and body part injured, as reflected in the table in Appendix 11, e.g. a fracture (M) to the leg (42) is attributed 160 days lost.