



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

SAMRASS South African Mines Reportable Accidents Statistics System

Codebook for mines

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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 Mineral Resources (DMR), has revisited the entire system of accident reporting and record keeping in its SAMRASS system, the **South African Mines Reportable Accidents Statistics System**, a sub-set of the entire DMR 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 (DMR), labour (mine worker unions) and the employer sector (Chamber of Mines) has 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 of 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 with 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 will 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 highlights trends within the industry and focuses on 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 prescribe the following accidents or dangerous occurrences to be reported to the Mine Health and Safety Inspectorate of the DMR on the prescribed forms (see addenda to this Codebook):

CHAPTER 23

ACCIDENTS AND DANGEROUS OCCURENCES

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:

the death of any employee;

an injury to any employee, likely to be fatal;

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)

an injury which either incapacitates the injured employee from performing that employee's normal or a similar occupation for a period totaling 14 calendar 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,

an injury, other than injuries referred to in paragraph (d), which incapacitates the injured employee's from immediately performing, continue or resume his normal duties 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 working days on Forms SAMRASS 1 and 2 prescribed in Chapter 21.

23.2 (3) The SAMRASS form is to be completed on a monthly basis and forwarded to the regional office of the Inspectorate in respect of all injured persons who have not returned to work during that month.

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, an injury to an employee likely to be fatal or a dangerous occurrence referred to in regulation 23.4(a) or (b), is related to a rock

burst or fall of ground, the duly completed Form SAMRASS 3, prescribed in Chapter 21, for such rock burst, fall of ground, caving or sinkhole, the duly completed Form SAMRASS 3 for the class of mine as prescribed in Chapter 21, for such rock burst, fall of ground, caving or sinkhole must be forwarded by the employer to the Principal Inspector of Mines within the period as stipulated by Section 11(5A) of such death, injury or dangerous occurrence.

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, within six months after date of any such 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 the period stipulated by Section 11(5A) of such change..*

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 the period stipulated by Section 11(5A) of such fire*

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 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 Principal Inspector of Mines within the period as stipulated by Section 11(5A) of such subsidence.*

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 the period as stipulated by Section 11(5A). of such occurrence.*

23.3(7) *Where the injury of a person referred to in regulation 23(1) or any dangerous occurrence referred to in regulation 23.4 required the use of either self-rescuers or a refuge bay, in addition to Form SAMRASS 1, the duly completed Form SAMRASS 10, prescribed in Chapter 21, must be forwarded by the employer to the Principal Inspector of Mines within the period as stipulated by Section 11(5A) 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:*

ROCKBURSTS AND FALLS OF GROUND

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

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;

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;

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

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;

At least 10 m² of roof or 5m³ of rock has been displaced from the roof of the mining cavity or excavation;

At least 10m³ of rock has been freshly displaced from pillars or tunnel sidewalls.

SINKHOLES

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*

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

(Will need to incorporate the deletion of Regulation 10.6. (8))

(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,*

iv) *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 from or attached to such rope;*

v) *fracture, failure or failure or serious distortion of any connection between conveyances or between a conveyance and any suspended or attached load,*

vi) *fracture of guide rope or its connections,*

vii) *fracture of balance or tail rope or its connections;*

viii) *fracture or failure of winding or balance sheave;*

ix) *fracture or failure of any essential part of the headgear or other sheave support;*

- x) jamming or accidental overturning of conveyance;*
- xi) conveyance or its load fouling shaft equipment;*
- xii) jamming of crosshead;*
- xiii) derailing of conveyance*
- xiv) conveyance, bridle, frame or crosshead accidentally leaving guides;*
- xv) fracture or failure of the braking system or of any critical parts thereof;*
- xvi) 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*
- ;*
- xvii) failure to activate, when required, of any overwinding prevention device or activation of such device when not required;*
- xviii) 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;*
- xix) 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) *POTENTIAL STRUCTURAL DAMAGE TO SHAFTS*

Any object falling down the shaft or any other incident which could cause structural damage, 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.

PLACE 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:

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

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 paragraph 10.1(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 identify 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

SECTION A: EMPLOYER DETAILS				
1.	Name of Mine			
2.	DMR Mine Code			
3.	Main Commodity			

ITEM 1. NAME OF MINE

Complete the name of the mine as registered with the Mineral Economics of the Department of Mineral Resources. The name must correlate with the DMR Mine Code. (Item 2).

ITEM 2. DMR MINE CODE

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

Premier Mine 0509

Note: The Directorate: Mineral Economics (of the Department of Mineral Resources) allocates numbers to new mines, and also to mines that have amalgamated or unbundled or changed their 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. Mineral Economics is contactable at the Pretoria office, Tel No. 012 444 3000

ITEM 3. MAIN COMMODITY

The main commodity being produced by the mine.

- Al Alumina
- AA Andalusite
- AE Andesite
- AG Silver
- SB Antimony
- AR Arkose
- AS Asbestos
- AP Attapulgit
- BT Bentonite
- CA Calcrete
- CL Coal
- CR Chrome
- CY Clay
- CU Copper

DI	Diamonds
DR	Dolerite
DM	Dolomite
DK	Dwyka
EM	Emeralds
FD	Feldspar
FI	Fireclay
FS	Fluorspar
FT	Felsite
FU	Fullers-earth
FY	Flintclay
GC	Gas and condensate
AU	Gold
GT	Granite
GD	Granite Dimension Stone
GV	Gravel
GS	Gypsum
HG	Mercury
IL	Ilmenite
FE	Iron-ore
JP	Jasper
KA	Kaolin
KG	Kieselguhr
LS	Limestone
MA	Magnesite
MH	Malmesbury Hornfels
MN	Manganese
MB	Marble
MC	Mica
MP	Mineral-pigments
MM	Montmorillonite
NP	Nepheline
Ni	Nickel
NR	Norite
OL	Oil
PB	Lead
PL	Perlite
PH	Phosphates
PT	Platinum group metals
PR	Prospecting (unspecified minerals)
PY	Pyrophyllite
QZ	Quartzite
QD	Quartzite Dimension Stone
SA	Sand and aggregate
NA	Salt
SH	Shale
SI	Silica
SM	Silicon-metal
ST	Sillimanite
SG	Slag
SD	Slate Dimension Stone
SL	Soil
TC	Talc
TE	Tigers-eye
SN	Tin
TN	Titanium

UR	Uranium
VA	Vanadium
WS	Wollastonite
ZN	Zinc
ZR	Zircon

SAMRASS 1 FORM

SECTION B: ACCIDENT OR DANGEROUS OCCURRENCE DETAILS

SECTION B: ACCIDENT OR DANGEROUS OCCURRENCE DETAILS												
1. Mine accident or dangerous occurrence number	YEAR				ACC/D.Occ REF NO				SHAFT			
	Y	Y	Y	Y	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	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											
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 five 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, such as 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:

Code	Location
01	Surface Operations
02	Underground
03	Opencast
04	Surface Mining
05	Aquatic (sea/river)

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

02 UNDERGROUND

Category of Working Place

Mineral excavation	
020101	Bord and pillar
020104	Goaf
020105	Long wall
020106	Rib pillar
020107	Short wall
020108	Stooping
020109	Travelling road
020110	Return airway
020111	Box hole or ore pass/muck bay
020112	Centre gully
020113	Ledging stope
020114	Stope entrance/travelling way
020115	Stope reclamation area
020116	Stope working face (panel)
020117	Stope worked out area
020118	Strike gully or cutting
020119	Tip
020120	Travelling way (stope proper)
020121	Up dip stope
020122	Cut and fill
020123	Open stopes
020124	Block caving/sub-level caving/sub-level stoping
020125	Waiting place
Mine development	
020201	Box hole or ore pass
020202	Crosscut or draw point crosscut
020203	Development or reef drive
020204	Haulage
020205	Raise (incl. pole way)
020206	Raise bore hole (excl. shafts)
020207	Return airway
020208	Ring tunnel
020209	Winze
Electrical	
020301	Electrical reticulation network
020302	Substation
Machinery room/chamber	
020401	Compressed air plant
020402	Hoist chamber

020403 Pump station
020404 Underground crusher

Plants

020501 Refrigeration/chilled ice
020502 Water purification

Shaft area

020601 Box hole or ore pass
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
020706 Loading station
020708 Shaft station
020709 Sinking shaft
020714 Sinking stage
020715 Vertical shaft
020720 Cage/skip/conveyance

Storage areas

020801 Backfill dams
020802 Dam or sump
020803 Explosives store/magazine
020804 Residue deposition (ash filling/back filling)
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 Boiler making 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.

Mineral mining	
030101	Berm
030102	Opencast
030103	Pit bottom
Transport Systems	
030201	Conveyor discharge point
030202	Conveyor loading point
030203	Conveyor transfer point
030204	Haul road
030205	Overland conveyor way
030206	Railway line
030207	Siding
030208	Tips/ore passes/chutes
Workshops	
030301	Maintenance/service bay

04 SURFACE MINING

Category of working place

Mineral mining	
040101	Dam reclamation
040102	Surface working/processing
040103	Waste dump reclamation

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

050001	At sea
050002	Platforms

050003	Diving vessels
050004	Floating process vessels
050005	On land
050006	River mining
050007	Dredges

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/her.

**ITEM 9. DEPTH BELOW THE SURFACE
(IN METRES)**

This field applies only to underground and opencast mining, where depth is reflected as excavated depth.

ITEM 10. SECTION OF THE MINE

***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**

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/AGENT

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/rockfall

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

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 **energy evidence of positive movement release** in the area at the time of the event.

01A001	Face/footwall
01A002	Hanging wall/roof
01A003	Sidewall
01A004	Footwall

Strainburst

Strainbursts are those involving spitting, flaking, scaling, or slabbing of the face or sidewall caused by the stresses 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/footwall
01B002	Hanging wall/roof
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/footwall
01C002	Hanging wall/roof
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. Electrocutation during operation must be classified as 06. Machinery is used as defined in the regulations.

At the 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)

At the drives, belts and chains

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

At the portable power tools

This classification includes any hand tools which are **operated** by an external power source such as electricity, compressed air or hydraulics. This includes other attachments or accessories, eg airlink.

02C001	Coal drill, , including attachments from source of power
02C002	Rock drill, including attachments from source of power
02C003	Portable electric tools
02C004	Other portable power tools
02C005	Aqua-jet \ water-jet

At other machinery not included under transportation and mining

02D001	Crushers
02D002	Fans
02D003	Processing plant equipment
02D004	Other (Specify)
02D005	Compressors
02D006	Clay extruder
02D007	Clay mixer
02D008	Clay cutter
02D009	Clay feeders
02D010	Brick packing equipment
02D011	Other

Aquatic mining

02E001	Aquatic mining machinery
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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
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Accidents occurring during the rerailing of any railbound vehicle must be classified under this heading.

Coupling/uncoupling

0301D1	Coupling/uncoupling
0301D2	Automatic/self coupling

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

Loading equipment (trackbound)

0301E1	Rocker arm shovel
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Personnel transport (trackbound)

0301F1	Bicycle
0301F2	Man carriage
0301F3	Other

General

Any trackbound transport not mentioned elsewhere above.

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

Endless rope vehicle

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

0302A1	Endless rope vehicle
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Winches

All accidents involving these machines, excluding runaways (05F). This classification does not include mono-rope installations, only winches from transport of material

0303A1	Single drum winch
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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

0303C1 Mono-rope installation
0303C2 Mono-rail installation

Hand tramming

0304A1 Hand tramming (trackbound)
0304A2 Hand tramming (trackless)

All accidents directly caused by any vehicle which is being propelled by hand.

Trackless transport

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 tractor
0305B2 Uncoupled trailer or 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 Mechanical loader/Rocker arm shovel
0307B1 Gathering arm loader
0307C1 Excavator
0307C2 Dragline
0307C3 Backhoe (backactor)
0307D1 Stacker/reclaimer
0307D2 Bucketwheel excavator
0307E1 Grab
0307F1 Front end loader
0307G1 Other mechanical loaders (specify)

0307H1 Shovel

Commodity transporters/tractors (track bound)

0308A1 Shuttle car
0308B1 L H D (load haul dumper)
0308B2 Scooptram
Haultruck:
0308C1 0-9 ton
0308C2 10-19 ton
0308C3 20-99 ton
0308C4 100-199 ton
0308C5 200-299 ton
0308C6 >300 ton
0308F1 Multi purpose vehicle or utility vehicle
0308G1 Other transporters (specify)
0308H1 Tractor
0308H2 LDV
0308H3 Trucks (excluding haultruck)
See 0310A4 for a jib or boom on a truck

Personnel transport

0309A1 Car
0309B1 Bus
0309B2 Personnel transporter
0309D1 Other motor vehicles (specify)
0309D2 Motor cycle
0309D3 Man riding conveyor
0309D4 Triad/quad bike
0309D5 Battery driven vehicle
0309D6 Bicycle (pneumatic tyre)

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
0311B2 Electric 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

04B101	Loading
04B102	Offloading
04B103	Carrying
04B104	Rolling
04B105	Pushing
04B106	Pulling
04B107	Lifting
04B108	Lowering
04B109	Installing

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 and machines.

04C001	In shafts
04C002	In excavations
04C003	From structures
04C004	Stationary machines
04C005	Moving machines

Slipping and falling

A person who 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/sliding
04D002	Tripping over
04D004	Overbalancing

Contact with

04E001	Contact with naked flame
04E002	Contact with hot surface
04E003	Contact with hot liquid
04E004	Contact with steam
04E005	Contact with chemical, including cement and lime
04E006	Contact with cement
	<i>If the injury is sustained during manual handling of material/mineral, refer to 04B</i>
04E007	Other

Splinters

04F001	Wood
04F002	Metal
04F003	Rock
04F004	Other (specify)

Exposure to dust, gas or fumes

Explosion

Under certain conditions, flame velocities of these gases after ignition can progress to detonation speed producing violent explosion and damage.

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

Ignition

This includes all concentrations (measured as a percentage of volume in air) of a flammable gas or vapour that will propagate flame to a source of ignition.

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

Inhalation (gassing)

To subject to gas fumes, especially so as to asphyxiate or render unconscious.

04G301	Flammable gas
04G303	Hydrogen
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;
- includes 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

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

04K001	Struck by falling object
04K002	Struck by flying object
04K003	Struck by/bumped by/against stationary or fixed object
04K004	Pushing/shoving/horseplay

04L001	Caught between/pinched
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05 Conveyance accidents (shaft/winze)

These classifications only apply to the conveyance specified.

For railbound and trackless personnel transporters use 0301B2 or 0308G1 respectively.

Struck by

05A001	Cage
05A002	Skip
05A003	Kibble
05A004	Trailer (shaft conveyance)
05A005	Inspection conveyance
05A006	Elevator/lift
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/lift
05B008 Other (specify)

Travelling by

05C001 Cage
05C002 Skip
05C003 Kibble
05C004 Trailer (shaft conveyance)
05C005 Inspection conveyance
05C006 Elevator/lift
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)

AC	06A101	Low pressure (not exceeding 250V)
	06A102	Medium pressure (above 250V but not exceeding 650V)
	06A103	High pressure (above 650V but not exceeding 3000V)
	06A104	Extra high pressure (exceeding 3000V)
DC	06A201	Low pressure (not exceeding 250V)
	06A202	Medium pressure (above 250V but not exceeding 650V)
	06A203	High pressure (above 650V but not exceeding 3000V)
	06A204	Extra high pressure (exceeding 3000V)

Electric shock

AC	06B101	Low pressure (not exceeding 250V)
	06B102	Medium pressure (above 250V but not exceeding 650V)
	06B103	High pressure (above 650V but not exceeding 3000V)
	06B104	Extra high pressure (exceeding 3000V)
DC	06B201	Low pressure (not exceeding 250V)
	06B202	Medium pressure (above 250V but not exceeding 650V)
	06B203	High pressure (above 650V but not exceeding 3000V)
	06B204	Extra high pressure (exceeding 3000V)

Electric flash

AC	06C101	Low pressure (not exceeding 250V)
	06C102	Medium pressure (above 250V but not exceeding 650V)
	06C103	High pressure (above 650V but not exceeding 3000V)
	06C104	Extra high pressure (exceeding 3000V)
DC	06C201	Low pressure (not exceeding 250V)
	06C202	Medium pressure (above 250V but not exceeding 650V)
	06C203	High pressure (above 650V but not exceeding 3000V)
	06C204	Extra high pressure (exceeding 3000V)

Equipment exploding Switchgear but not transformers

AC	06D101	Low pressure (not exceeding 250V)
	06D102	Medium pressure (above 250V but not exceeding 650V)
	06D103	High pressure (above 650V but not exceeding 3000V)
	06D104	Extra high pressure (exceeding 3000V)
DC	06D201	Low pressure (not exceeding 250V)
	06D202	Medium pressure (above 250V but not exceeding 650V)
	06D203	High pressure (above 650V but not exceeding 3000V)
	06D204	Extra high pressure (exceeding 3000V)

Transmission equipment

		Including overhead powerlines, cables and transformers
AC	06E101	Low pressure (not exceeding 250V)
	06E102	Medium pressure (above 250V but not exceeding 650V)
	06E103	High pressure (above 650V but not exceeding 3000V)
	06E104	Extra high pressure (exceeding 3000V)
DC	06E201	Low pressure (not exceeding 250V)
	06E202	Medium pressure (above 250V but not exceeding 650V)
	06E203	High pressure (above 650V but not exceeding 3000V)
	06E204	Extra high pressure (exceeding 3000V)

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 (<i>see also codes 08 Explosives</i>).
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 (<i>see also 04G1</i>).
07J001	Explosions such as coal dust/gas 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 and sinkholes

This should be reported for all commodities.

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 Barotrauma (pressure)
12J000 Other (specify)

13 Not classified elsewhere (Miscellaneous)

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.

13A001 Suspected non-mining accident
13A002 Illegal mining

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)

AA0101 Winding engine
AA0102 Winding drum
AA0103 Conveyance

Winding plant: fracture or failure of

Regulation 23.4 (h) (ii)

AB0101 Drum
AB0102 Drum shaft
AB0103 Drum bushes
AB0104 Main bearings
AB0105 Clutch
AB0106 Gearbox
AB0107 Driving water
AB0108 Lubricating system
AB0109 Interlocking or safety device
AB0110 Signalling system
AB0111 Any other essential part (specify)

Winding plant: fracture/failure of rope/connection

Regulation 23.4 (h) (iii).

AC0101 Winding rope
AC0102 Connection between winding rope and drum
AC0103 Connection between winding rope and conveyance
AC0104 Connection between rope and attached load
AC0105 Connection between conveyances
AC0106 Connection between conveyance and attached load
AC0107 Fracture of guide rope or its connections
AC0108 Fracture of balance or tail rope or its connections

Winding plant: fracture/failure of sheave/shaft/bearings

Regulation 23.4 (h) (iv)

AD0101 Winding rope sheave
AD0102 Balance rope sheave
AD0103 Winding rope sheave shaft or bearings
AD0104 Balance rope sheave shaft or bearings
AD0105 Essential part of the headgear
AD0106 Other sheave support (specify)

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: derailling

Regulation 23.4 (h) (vi)

AF0101	Derailling of conveyance
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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	Activation of safety catches when not required
AI0102	Failure of safety catches to activate 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 Activation of safety catches when not required
BF0102 Failure of safety catches to activate when required

Lifts and elevators: overwind prevention device

Regulation 23.4 (i) (vi)

BG0101 Activation of the overwind prevention device when not required
BG0102 Failure to activate 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)

DA0101 Sinkhole
DA0102 Subsidence on surface
DA0103 Other (specify)

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)*

Regulation 23.4 (o)

DB0101 Accidental ignition (not causing a fire)
DB0102 Accidental detonation (not causing a fire)
DB0103 Exposure to blasting fumes (gassing) refer to 04G304 for exposure to blasting fumes where incapacitated and sent for 24 hour observation
DB0104 Other dangerous occurrences due to explosives (specify)

Flow of broken rock

Regulation 23.4 (c)

DC0101 Flooding of considerable portion of workings with water or fluid material
DC0102 Failure of slimes dam
DC0103 Failure of other dam
DC0104 Failure of reservoir
DC0105 Failure of bulkhead or chute
DC0106 Failure of controlling mechanisms

Fires and/or 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)*

Regulation 23.4.(f)

DDA100 Explosives
DDB100 Explosives accessories
DDC100 Spontaneous combustion
DDD100 Friction
DDE100 Open flame
DDF100 Cutting or welding
DDG100 Electrical
DDH100 Cigarettes or smoking
DDI100 Methane
DDJ100 Deleted in this SAMRASS version
DDK100 Other
Coal dust
DDL100 Explosion (not causing a fire)
DDL200 Ignition (not causing a fire)
Methane
DDM100 Explosion (not causing a fire)
DDM200 Ignition (not causing a fire)

	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 metres of working face has been severely damaged
FA0102	At least 25m ² of working area has been severely damaged
FA0103	At least 10 linear metres of gully has been restricted with rock
FA0104	At least 10 linear metres continuous or 30 linear metres 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
	Gravity
	Regulation 23.4 (a)
FB0101	At least 10 linear metres of working face has been severely damaged
FB0102	At least 25m ² of working area has been severely damaged
FB0103	At least 10 linear metres of gully has been restricted with rock
FB0104	At least 10 linear metres continuous or 30 linear metres 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

Objects falling in shaft
Regulation 23.4 (j)

JA0101 Object falling down shaft requiring shaft inspection

Emergency or Rescue procedures
Regulation 23.4 (k)

KA0101 Failure of breathing apparatus
KA0102 Use of emergency apparatus, procedures or mechanisms

Self propelled mobile machinery
Regulation 23.4 (l)

LA0101 Running out of control

ITEM 14. PROBABLE CAUSE OF ACCIDENT OR DANGEROUS OCCURRENCE

Note: this refers to the basic causes of the accident or dangerous occurrence.

To be completed by the mines and not the Inspectorate as in previous versions of the Codebook.

TRAINING OR PLACEMENT FACTORS

01 Inadequate mental or physical limitations

01A Physical limitations

01B Mental limitations

01C General

02 Lack of knowledge

02A Training

02B Task training and instructions

02C Periodical review of training

03 Lack of skill

PERSONAL FACTORS

04 Stress - physiological or mental

- 04A **Physiological**
- 04B **Exposure**
- 04C **Mental stress as a result of:**

- 05 **Improper motivation**

- 05A **Related to supervisors**
- 05B **Related to the task**

- 06 **Abuse or misuse**

- 06A **Incorrect use of tools, equipment, material, etc. due to:**

- 07 **Inadequate leadership and supervision**

- 07A **Supervisors**
- 07B **Management**

- 08 **Engineering**

- 08A **Inadequate design**
- 08B **Specifications not researched for design**
- 08C **Construction**
- 08D **Commissioning**

JOB FACTORS

- 09 **Inadequate purchasing**

- 09A **Safety specification**
- 09B **Hazardous substances**
- 09C **Suppliers**

- 10 **Maintenance**
Malfunction/breakdown of equipment

- 10A **Inadequate assembly/maintenance standards and procedures**
- 10B **Repairs to equipment**

- 11 **Equipment, tools and material**

- 11A **Tools**
- 11B **Equipment**
- 11C **Material**
- 11D **Personal protective equipment**

- 11E Wear and tear

- 12 Standards and procedures

- 12A Standards/code of practice
- 12B Procedures
- 12C On the job training inadequate
- 13 Miscellaneous
- 13A Other

ITEM 15. WHEN DID THE ACCIDENT OR DANGEROUS OCCURRENCE OCCUR - DURING NORMAL WORKING HOURS OR DURING 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 or she is working overtime, this is not to be considered normal working hours. If a worker works rotating shifts, this should be considered as normal working hours.

Overtime is considered to be any time worked by an employee in excess of nine hours, and additional shifts worked for purposes of time off.

ITEM 16. DID THE ACCIDENT OR DANGEROUS OCCURRENCE HAPPEN AT THE 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 the task for the major portion of the worker's 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**.*

SAMRASS 1 FORM

SECTION C: RESPONSIBLE PERSONS

SECTION C: RESPONSIBLE PERSONS																			
Name	Identity Number/Passport Number	Certificate No.	Relevant Institution	Occupation															
1 ST LEVEL SUPERVISOR																			
2 ND LEVEL SUPERVISOR																			
3 RD LEVEL SUPERVISOR																			
4 TH LEVEL SUPERVISOR																			
Name of Manager	Designation	Signature					Date												
			Y	Y								Y	Y	M	M				

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 issued by the Department of Mineral Resources, e.g. mine overseers' certificate. If a person is in an acting capacity, use 000000.

For example:

- | | | |
|---------|---------------|----------------------------------|
| ITEM 1. | Miner | 1 st level supervisor |
| ITEM 2. | Shiftboss | 2 nd level supervisor |
| ITEM 3. | Mine overseer | 3 rd level supervisor |
| ITEM 4. | Manager | 4 th level supervisor |

Similarly, if an artisan's aide is injured:

- | | | |
|---------|----------------|----------------------------------|
| ITEM 1. | Artisan | 1 st level supervisor |
| ITEM 2 | Foreman | 2 nd level supervisor |
| ITEM 3 | Senior foreman | 3 rd level supervisor |
| ITEM 4 | Engineer | 4 th 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 Mineral Resources

SECTION D: FOR USE BY THE DEPARTMENT OF MINERAL RESOURCES												
1. Regional accident or dangerous occurrence number	Y	Y	Y	Y	R	N	N	N	N	I		
2. Date reported - is the date SAMRASS forms were received in the regional office	Y	Y	Y	Y	M	M	D	D				
3. Type of accident or dangerous occurrence												
4. Accident or dangerous occurrence registered by				Date	Y	Y	Y	Y	M	M	D	D
5. Inquiry type												
6. Date evaluation form completed	Y	Y	Y	Y	M	M	D	D				
INSPECTORATE DETAILS				NAME (In block letters)		DATE			SIGNATURE			
7. Inspector of Mines					Y	Y	M	M	D	D		
8. Senior Inspector of Mines (Mining)					Y	Y	M	M	D	D		
9. Senior Inspector of Mines (Mining Equipment)					Y	Y	M	M	D	D		

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	Klerksdorp region
K	Rustenburg region

ITEM 2. DATE REPORTED

This is the date that the SAMRASS forms were received in the regional office and date-stamped.

ITEM 3. TYPE OF ACCIDENT OR DANGEROUS OCCURRENCE

- D** Duplicate/deleted (not for statistics)
- 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 6 000 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:
Initials of accidents register clerk

Date:

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 REFERS 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

****This section has been moved to Section B, Item 14 and needs to be completed by the mine in future.***

ITEM 6. PROBABLE CAUSE OF ACCIDENT OR DANGEROUS OCCURRENCE

Note: this refers to the basic causes of the accident or dangerous occurrence

TRAINING OR PLACEMENT FACTORS

01 Inadequate mental or physical limitations

01A Physical limitations

01B Mental limitations

01C General

02 Lack of knowledge

02A Training

02B Task training & instructions

02C Periodical review of training

05 Lack of skill

PERSONAL FACTORS

06 Stress - physiological or mental

04A Physiological

04B Exposure

04C Mental stress as a result of:

05 Improper motivation

05A Related to supervisors

05B Related to the task

06 Abuse or misuse

06A Incorrect use of tools, equipment, material, etc. due to:

07 Inadequate leadership and supervision

07A Supervisors

07B Management

08 Engineering

08A Inadequate design

08B Specifications not researched for design

08C Construction

08D Commissioning

JOB FACTORS

09 Inadequate purchasing

09A Safety specification

09B Hazardous substances

09C Suppliers

10 Maintenance

Malfunction/breakdown of equipment

10A Inadequate assembly/maintenance standards and procedures

10B Repairs to equipment

11 Equipment, tools and material

11A Tools

11B Equipment

11C Material

11D Personal protective equipment

11E Wear and tear

12 Standards and procedures

12A Standards/code of practice

12B Procedures

12C On the job training inadequate/does not include procedures

13 Miscellaneous

13A Other

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:

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)

Name of Mine												
Mine accident or dangerous occurrence number	YEAR				ACC REF NO				SHAFT			
	Y	Y	Y	Y	N	N	N	N	S			S
Date of accident or dangerous occurrence (use YYYY/MM/DD format)				Y	Y	Y	Y	M	M	D	D	
Regional accident or dangerous occurrence number				Y	Y	Y	Y	R	N	N	N	I

SECTION B: 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)				Y	Y	Y	Y	M	M	D	D	
7. Country of origin												
8. Population group					01		02		03		04	
9. Was the injured an employee ("E"), a contractor ("C") or a Casual ("T")?								E	C	T		
10. Name of contracting company (if applicable)												
11. Male or female								M	F			
12. Normal occupation at time of accident												
13. Total experience in current occupation					Y		Y	M	M	D	D	
14. Was injured carrying out normal duties at time of accident?								Y	N			
15. Date first employed with current employer (Use YYYYMMDD format)				Y	Y	Y	Y	M	M	D	D	
16. Date last shift worked (Use YYYYMMDD format)				Y	Y	Y	Y	M	M	D	D	
17. Date resumed work (Use YYYYMMDD format)				Y	Y	Y	Y	M	M	D	D	
18. If fatal, date of death				Y	Y	Y	Y	M	M	D	D	

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**.

10	South Africa
15	Lesotho
16	Botswana
17	Swaziland
31	Mozambique
79	Namibia
99	Other (specify)

ITEM 8. POPULATION GROUP

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

ITEM 9. WAS THE INJURED A PERMANENT EMPLOYEE (E), CONTRACTOR (C) OR A CASUAL WORKER(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/her job description, e.g. if a boilermaker was welding, this is the normal occupation. If, however, he/she was making electrical repairs, this is not the 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
90725	Artisan
90726	Artisan assistant
50403	Assay technician
50401	Assayer
50499	Assay/chemistry/laboratory worker (n.e.c.)
29909	Assistant driller
10511	Assessor
35910	Assopulp worker?
60602	Attorney/solicitor/conveyancer
40319	Auto electrician
20805	Backfill worker
21304	Banksman/onsetter
81202	Bargemaster
21305	Bell
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)
81202	Bosun (ocean)
21404	Box/ore pass/rock pass controller
90704	Box-feeder operator
36710	Brick maker
40614	Bricklayer
40617	Bricklayer: aide
90730	Brick wrapper
40615	Builder
80499	Building service worker (n.e.c.)
80400	Building services management

40618	Building worker (n.e.c.)
40616	Building worker: operative
90702	Bulldozer operator
40343	Cable joiner
30508	Calcinating worker
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
21699	Cementer (ocean)
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
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
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.)
40611	Clerk of works
00720	Cleaner (brickwork)
40195	Clerk (engineering planning)
49995	Clerk (engineering)
51095	Clerk (environmental)
70895	Clerk (first aid)
50795	Clerk (industrial engineering)
60295	Clerk (industrial relations)
79995	Clerk (medical)
39995	Clerk (metallurgical plant)
20195	Clerk (mining planning)
29995	Clerk (mining) (n.e.c.)
10695	Clerk (property/mining rights)
81095	Clerk (rail transport)

80995	Clerk (road transport)
50395	Clerk (rock mechanics)
50895	Clerk (safety/loss control)
80195	Clerk (security)
50695	Clerk (statistics)
10395	Clerk (stores)
00295	Clerk (strategic planning)
50295	Clerk (survey)
60395	Clerk (training)
60595	Clerk (welfare)
70202	Clinical assistant
20604	Coal auger operator
20601	Coal cutter operator
20605	Coal plough operator
30211	Coal preparation worker
30509	Coking plant attendant
36014	Collator
40804	Compressor attendant
30399	Concentration/flotation worker (n.e.c.)
90734	Construction team leader
90735	Construction worker
49996	Consultant (engineering, n.e.c.)
09996	Consultant (general management, n.e.c.)
39996	Consultant (metallurgy/beneficiation/manufacturing, n.e.c.)
29996	Consultant (mining production, n.e.c.)
59996	Consultant (scientific/technical, n.e.c.)
89996	Consultant (service occupation, n.e.c.)
40000	Consulting engineer (engineering support)
20000	Consulting engineer (mining)
30003	Consulting metallurgist
20602	Continuous miner driver
49902	Contractor (outside)
30202	Control room operator
60602	Conveyancer/attorney/solicitor
20299	Conveyer worker (n.e.c.)
21202	Conveyer belt attendant
21201	Conveyer belt team leader/supervisor
81301	Crane driver
81398	Crane driver trainer
81009	Crossing attendant
30207	Crusher attendant
90705	Crusher operator
30212	Crusher supervisor
30505	Cupolaman
49903	Cutter
90709	Cutter operator
30403	Cyanidation team leader/supervisor
30405	Cyanidation worker
29908	Day pusher) (ocean)
29910	Deck attendant
20313	Deck leader

40102	Designer (engineering)
20303	Developer
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
29911	Diver
40905	Disinfestation worker
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
90715	Dryer operator
30702	Dump team leader/supervisor

30703	Dump worker
30701	Dumpsman
10907	Duplicator
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
40899	Energy systems worker (n.e.c.)
40201	Engineer (n.e.c.)
40205	Engineering assistant (n.e.c.)
40004	Engineering foreman (n.e.c.)
40202	Engineering inspector
40001	Engineering management (multi-disciplinary)
40099	Engineering management (n.e.c.)
49901	Engineering team leader (n.e.c.)
40299	Engineering technical worker (n.e.c.)
40203	Engineering technician (n.e.c.)
51004	Environmental assistant
51007	Environmental construction supervisor
51008	Environmental construction worker
51001	Environmental engineer
51000	Environmental engineering management
51005	Environmental observer
51003	Environmental officer
51002	Environmental superintendent
51099	Environmental worker (n.e.c.)
21504	Equipper
40104	Estimator/calculator
90703	Excavator operator
00000	Executive director (n.e.c.)
10317	Explosives issuer
90707	Extruder operator

40344	Fan attendant
30302	Filter operator/worker
30301	Filter team leader/supervisor
80202	Fire fighting/rescue officer
80203	Fire fighting/rescue team leader/supervisor
80298	Fire fighting/rescue trainer
80299	Fire fighting/rescue worker (n.e.c.)
81005	Fireman/stoker
80201	Firemaster
70802	First aid attendant
70800	First aid management/medical station superintendent
70801	First aid team leader/supervisor
70898	First aid trainer
70898	First aid training superintendent
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.)
40502	Forger
90719	Forklift driver
40505	Founder
90700	Front-end loader operator
30599	Furnace worker (n.e.c.)
40656	Ganger/plate/tracklayer (main line)
40480	Garage mechanic: aide
40481	Garage serviceman
40482	Garage worker (n.e.c.)
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
50103	Geochemist
50100	Geological management
50109	Geological observer/field assistant
50199	Geological worker (n.e.c.)
50101	Geologist
50108	Geology technician
50102	Geophysicist
21401	Grab operator
50408	Grade officer
90722	Grader driver

90728	Greaser
30210	Grinderman/pulveriser
90726	Grinding operator
36013	Guillotine operator
40654	Handyman (maintenance)
21001	Haulage team leader/supervisor
21099	Haulage/underground rail transport worker (n.e.c.)
21302	Hoist driver
21399	Hoisting 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.)
60202	Industrial relations assistant
60200	Industrial relations management
60201	Industrial relations practitioner
60299	Industrial relations worker (n.e.c.)
90708	Inspector: mine health and safety
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)
40602	Junior engineer (civil engineering)
40302	Junior engineer (electrical engineering)
40402	Junior engineer (mechanical engineering)
40207	Junior engineer (n.e.c)
90716	Kiln operator
30504	Kiln man/kiln worker
90713	Kiln car operator
60103	Labour controller
30506	Ladleman/ladle worker
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)
20202	Learner official (mining)
40208	Learner operative
21306	Lift operator
80705	Liquor outlet supervisor
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
90718	Manager: mine
40626	Mason
40627	Mason aide
40414	Mechanic (ocean)
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.)
70201	Medical officer
70310	Medical physicist
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
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
20099	Mine production management (n.e.c.)
20399	Mine production supervisor (n.e.c.)
29999	Mine production worker (n.e.c.)
10900	Mine secretary (administration)
21499	Mine transport worker (n.e.c.)
20305	Miner (general)
50104	Mineralogist
20504	Miner's assistant (cheesa)
20201	Mining engineer (n.e.c.)
20299	Mining technical worker (n.e.c.)
20210	Mining technician (n.e.c.)
40103	Model maker
50205	Model maker (survey)
21308	Monorail operator
21309	Monorope operator
20310	Monorope worker
40543	Motorman (ocean)
40473	Motor mechanic
40474	Motor mechanic apprentice
40472	Motor mechanic chargehand
40471	Motor mechanic foreman
40479	Motor/diesel mechanic operative
40504	Moulder
20704	Multi task worker Underground production
20705	Multi task worker Opencast production
29908	Night pusher (ocean)
20308	Night shift cleaner
70121	Occupational hygienist
70121	Occupational hygienist assistant/observer
90710	Off-setter
00101	Offshore installation manager (ocean)
21304	Onsetter/banksman
50703	Operations research officer
70501	Oral hygienist
21404	Rockpass/Orepass/box controller
70403	Orthodontist
90711	Packer
40503	Patternmaker

40629	Paver
10404	Paymaster
10402	Payroll administrator
10401	Payroll controller
10400	Payroll management
10499	Payroll worker (n.e.c.)
80899	Personal care worker (n.e.c.)
60102	Personnel assistant/masiza
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
40628	Plasterer
40448	Plater
40447	Plater/boilermaker
40449	Plater/boilermaker apprentice
40446	Plater/boilermaker chargehand
40445	Plater/boilermaker foreman
40452	Plater/boilermaker worker (n.e.c.)
40455	Plater/welder
40457	Plater/welder apprentice
40454	Plater/welder chargehand
40453	Plater/welder foreman
40458	Plater/welder worker (n.e.c.)
40656	Plate/track layer/ganger (main line)
40632	Plumber
40635	Plumber aide
40633	Plumber apprentice
40631	Plumber chargehand
40630	Plumber foreman
40634	Plumber operative
40636	Plumber worker (n.e.c.)
09801	Pool gang worker
40530	Power hammer operator
40529	Press operator
30203	Process controller
60900	Producer/director (creative arts)
20001	Production/section/underground manager
50705	Productivity officer
19992	Project manager (admin/financial n.e.c.)
99992	Project manager/officer (agriculture n.e.c.)

49992 Project manager/officer (engineering n.e.c.)
 09992 Project manager/officer (general management n.e.c.)
 69992 Project manager/officer (humanities n.e.c.)
 79992 Project manager/officer (medical/health n.e.c.)
 29992 Project manager/officer (mining n.e.c.)
 39992 Project manager/officer (reduction/beneficiation/manufacturing)
 59992 Project manager/officer (scientific/technical n.e.c.)
 89992 Project manager/officer (services n.e.c.)
 10601 Property broker
 10600 Property/mining rights management
 10602 Property/mining rights officer
 10699 Property/mining rights worker (n.e.c.)
 50107 Prospector
 30210 Pulveriser/grinderman
 40531 Pump team leader/supervisor
 40532 Pump worker
 30104 Pupil metallurgist
 10312 Purchaser/buyer
 10300 Purchasing/stores management
 90723 Quality assurance clerk
 40613 Quantity surveyor
 20307 Quarryworker
 79999 Radio/medic (ocean)
 40327 Radio mechanician
 11012 Radio operator
 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
 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
 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.)
 49997 Researcher (engineering n.e.c.)
 09997 Researcher (general management n.e.c.)
 79997 Researcher (medical n.e.c.)

39997	Researcher (metallurgy/beneficiation/manufacturing n.e.c.)
29997	Researcher (mining production n.e.c.)
50397	Researcher (rock mechanics)
59997	Researcher (scientific/technical n.e.c.)
89997	Researcher (service occupation n.e.c.)
40508	Rigger and ropeman
40509	Rigger and ropeman apprentice
40507	Rigger and ropeman chargehand
40506	Rigger and ropeman foreman
40511	Rigger and ropeman worker (n.e.c.)
40510	Rigger aide
40655	Road builder
80900	Road transport management
80901	Road transport officer
80902	Road transport team leader
80999	Road transport worker (n.e.c.)
20799	Rock breaking worker (n.e.c.)
20402	Rockdrill operator
50301	Rock mechanics engineer
50300	Rock mechanics management
50302	Rock mechanics officer
50399	Rock mechanics worker (n.e.c.)
20899	Rock support worker (n.e.c.)
20806	Roof bolt machine operator
20807	Roof bolt worker
29909	Roughneck (ocean)
81201	Roustabout (ocean)
40523	Rubber reliner
50802	Safety/risk auditor
50800	Safety/health/environment/risk management
50803	Safety/health/risk observer assistant
50801	Safety/health/risk officer
50899	Safety/health/risk worker (n.e.c.)
10319	Salvage yard aide
10320	Salvage and reclamation worker (surface)
29907	Salvage and reclamation worker (underground)
50204	Sample worker
50203	Sampler
50206	Sand blaster
40904	Sanitation worker
40540	Saw doctor
40542	Saw sharpener
40541	Sawmill mechanic
35710	Sawyer
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.)
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
30206	Sorter
50407	Spectrographer
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
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	Stripper operator
49993	Student (engineering n.e.c.)
50193	Student (geology)
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.)
90724	Supervisor
29902	Supervisor's assistant (underground)
70399	Supplementary medical worker (n.e.c.)
50200	Survey management
50299	Survey worker (n.e.c.)
50201	Surveyor (land)
50202	Surveyor (mine)
29903	Sweeper/vamper
20312	Team leader/supervisor (other mining production work)
40204	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
10403	Timekeeper
21511	Tip attendant
21405	Tip team leader/supervisor
21406	Tip worker
40512	Toolmaker
20312	Toolpusher (ocean)
60804	Tour guide
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)
90721	Tractor driver
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.)
09998	Trainer (general management 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.)
90714	Transfer car operator
60903	Translator
81399	Transport worker (n.e.c.)
60203	Tribal representative/induna
90701	Truck driver
09999	Unclassified occupation (unknown/no specific skill)
20001	Underground/production/section manager
30401	Uranium plant official
30409	Uranium plant worker
30410	Ventilation/construction team leader
30411	Ventilation/construction worker
90712	Unpacker
10510	Valuator
90732	Ventilation team leader
90733	Ventilation worker
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
40526	Winch Operator\Driver
40525	Winch transporter team leader
40524	Winch transporter/erector
21301	Winding engine driver (licensed)
20406	Wireline operators (ocean)

35913 Wrapper
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/her job description, e.g. if a boilermaker was welding, this is the normal duty. If, however, the boilermaker was making electrical repairs, this is not his/her 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 who 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 C : DETAILS OF INJURY

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

SECTION F: INJURY DETAILS – THIS SECTION NEED NOT BE COMPLETED FOR A DANGEROUS OCCURRENCE					
1. Task: (person injured or killed while performing)					
2. Activity: (injured or killed while...)					
3. Nature of injury					
4. Part of body injured					
5. Type of accident of individual Fatal (F), Totally disabling (T), Injury (I)		F	T	I	
6. Allocated days lost (to be completed by DME)					

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

- 1A01 Digging, drilling, dredging
- 1A02 Drilling
- 1A03 Preparing the face
- 1A04 Charging
- 1A05 Blasting
- 1A06 Cleaning (broken rock)
- 1A07 Make safe (includes barring)
- 1A08 Installing
- 1A09 Removing support

1B TRANSPORTING

- 1B01 Transporting of mineral/rock/ore by

- 1B02** **Transporting of people by**
- 1B03** **Transporting of materials/equipment by**
- 1B04** **Material handling (loading, unloading, stacking)**

1C **ENGINEERING TASKS**

- 1 C0101 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**

- 1D** **Mechanical or chemical processes**

1E **ANCILLARY TASKS**

- 1E** **Mine infrastructure and services**
- 1F01** **Occupational hygiene control services**
- 1F02** **General maintenance/housekeeping**
- 1F03** **Catering/hostel services**

ITEM 2: 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 Heatstroke
- S Hernia
- T Laceration (a jagged wound or cut)
- U Multiple injury
- V Poisoning (use unspecified code 99)
- W Puncture (piercing or perforating as with a pointed instrument or object)
- X Asphyxiation (use unspecified code 99)
- Y Sprain/strain
- Z Other

AB Blindness

NB. Incapacitation/unconsciousness, see appendix 14 for explanation

ITEM 3: 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 = 6 000 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

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

Arms and hands

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

Legs and feet

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

Multiple

- 50 Multiple injuries to head, face, neck and trunk
- 51 Multiple injuries to head, face, neck and limbs
- 52 Multiple injuries to the entire body
- 53 Multiple injuries to the trunk and upper limb(s)
- 54 Multiple injuries to the trunk and lower limb(s)
- 55 Multiple injuries to the upper and lower limb(s)
- 56 Multiple injuries to the trunk, lower limbs and upper limbs
- 99 UNSPECIFIED

ITEM 4 TYPE OF ACCIDENT OF INDIVIDUAL

- F** One person killed (allocate 6 000 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 5 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.