



Knowledge grows

# Safety leaflet

## Yara Siilinjärvi








# Yara Safety Principles

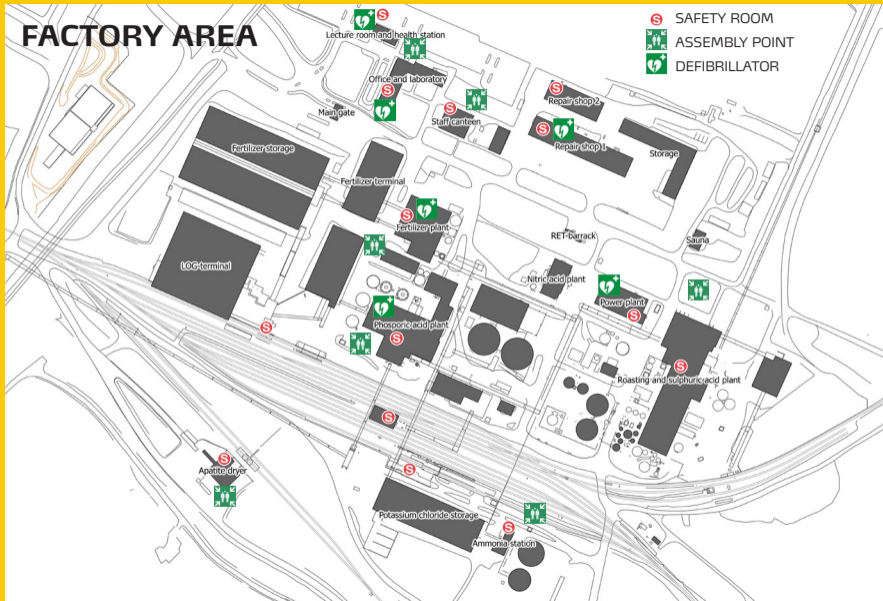
- 1. All injuries are preventable and safety is the common basis for our “ license to operate”.**
- 2. Managers (include supervisors) are responsible for:**
  - 2.1 Reducing risk to as low as reasonably practical.
  - 2.2 Setting safety standards and goals, monitoring, auditing and completing agreed actions on time as well as reviewing performance to achieve operational discipline and continuous improvement in safety.
  - 2.3 Developing employees to work safety.
- 3. All employees and contractors are responsible for:**
  - 3.1 Having the appropriate competence for safety working.
  - 3.2 Adhering to safety technical standards and rules at all times.
  - 3.3 Addressing own and others “at risk behaviors” and to reinforce “safe” behaviors.
  - 3.4 Taking immediate actions to correct report and follow up near misses and hazardous conditions.
- 4. Working safely is everyone´s responsibility and is a condition of employment.**



# Golden Rules

	<b>WORKING AT HEIGHTS</b>	All work at height shall have a risk assessment and failure to use of a safety harness when identified shall lead to instant dismissal.
	<b>WORKING WITH HAZARDOUS CHEMICALS</b>	Exposure to chemical risk shall be minimised and where identified in a risk assessment personal protective equipment shall be used.
	<b>WORKING WITH SAFETY-PROTECTED EQUIPMENT, MACHINERY AND CONTROL SYSTEMS</b>	Safety guards and machinery controls shall not be removed without written permission, normally a permit to work.
	<b>WORKING ON ENERGISED EQUIPMENT</b>	All energy sources shall be de-energised and locked out prior to commencing work.
	<b>WORKING IN CONFINED SPACE</b>	All work in confined space shall have written authorization before entry. Isolation from all connecting pipework and energy sources, valid gas tests and a safety watch shall always be present.

# FACTORY AREA



# MINE AREA

Paaportti

ASSEMBLY POINT  
DEFIBRILLATOR



E.H. repair shop



Storage

E.H. washing hall

Primary crusher

Mica plant

Apatite and calcite storage

Fuel station

Concentrator

Laboratory

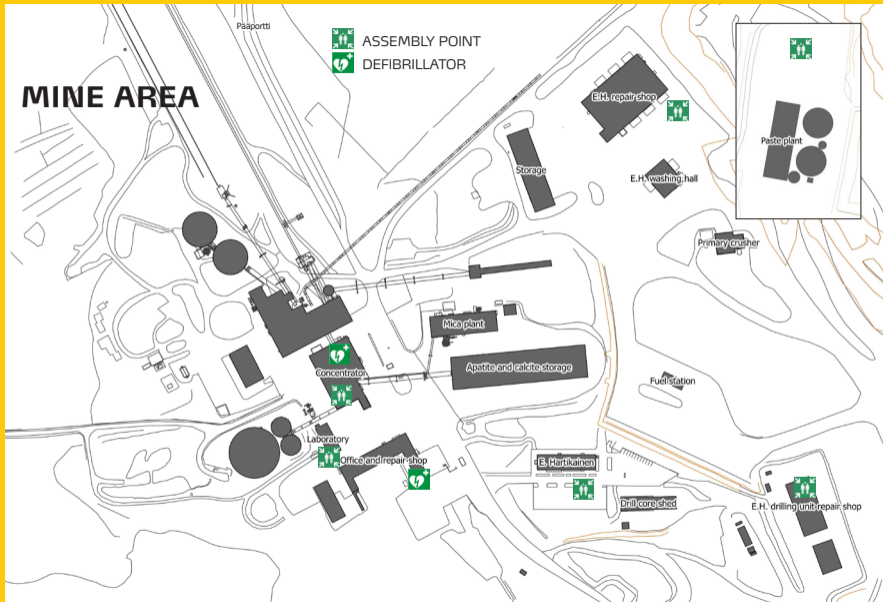
Office and repair shop

E. Martikainen

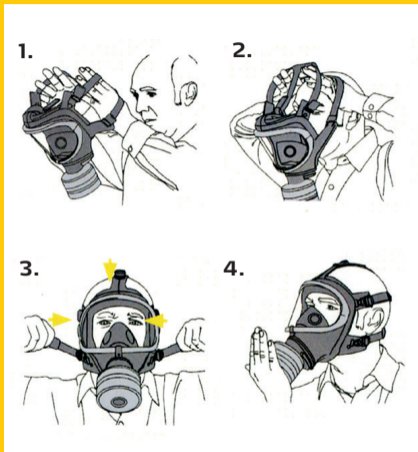
Drill core shed

E.H. drilling unit repair shop

Paste plant



## GAS MASK USER MANUAL



- Gas mask is personal protective equipment
- Lifetime of the filter is limited after opening the filter's package.

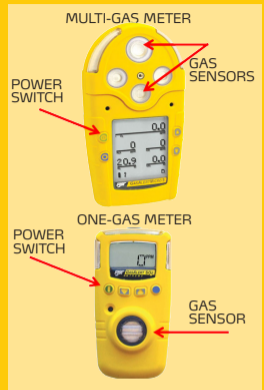
## ESCAPE HOOD USER MANUAL



- Anyone within the factory area must carry a escape hood!
- Escape hood gives you same protection against gases than ABEK-filter, but only for 15 minutes.

# Introduction of gas meters

- First, mark the information requested in the Instrument Listing Book.
- Put the meter on and place it in the test station. Press the button "bump check". This ensures that the meter is operational.
- Wait at the end of the test, if the **GREEN** light is on, the meter is ready for use. If a **RED** light is on, put the meter in the service box. Attach note in the meters' mounting clip, where a fault is explained (e.g. bump fail, past, battery end etc).
- The multi-gas meter with pump has its own test roll. For such a meter, a pump test must also be carried out, by blocking the suction pipe according to the instructions on the display.
- Attach the meter to a breast pocket, not the inside of the garment. The sensor must be in contact with the surrounding air. Protect from splashes.
- If the meter is alerting, vibrating and flashing, exit the safe area and contact Yara's staff.
- At the end of the shift, turn off the meter and return it to the storage cabinet and a multi-gas meter in the charger. Mark the return to the Instrument Listing Book.
- Meter supervisor's contact information is located in every plant's test stations.



NH <sub>3</sub>	=	Ammonia
NO <sub>2</sub>	=	Nitrogen oxides
LEL	=	Explosive gases
O <sub>2</sub>	=	Oxygen
H <sub>2</sub> S	=	Hydrogen sulfide
SO <sub>2</sub>	=	Sulfur dioxide
HF	=	Hydrogen fluoride
CO	=	Carbon monoxide
CO <sub>2</sub>	=	Carbon dioxide
CL <sub>2</sub>	=	Chlorine

# SAFETY RULES

Work permit is required for all activities

## Personal Protective Equipment (PPE) requirements

Following PPE must be worn at the site



Safety helmet



Eye protection



Ear protection



Safety shoes



Safety uniform



Safety gloves

**All safety equipment must be used according to the instructions of the manufacturer.**

Other personal safety equipment must be used in different tasks:

- If the circumstances require
- According to personal safety equipment instructions
- According to each function's instructions

## Other rules and restrictions



The unauthorized access is prohibited



Smoking is allowed only at marked places.



Taking pictures is prohibited without permission.



Alcohol and drugs are prohibited



# SAFETY RULES

Work permit is required for all activities

## Traffic restrictions



Use of mobile phone is prohibited while driving



Attach seat belt when driving



Areal speed limits must be followed

- Vehicles must be parked only to the marked parking places.
- Driving authorization must be displayed on the windscreen.
- Follow the traffic rules.

## Danger! Hazard pictograms



Health hazard



Corrosive



Flammable



Environmental hazards



Explosive



Oxidizing



Acute toxic



Gases under pressure



Chronic health

## Common warning signs

### Meaning and use

### Alarm sound

#### Fire alarm

Exit the building where fire alarm is triggered and go to the gathering place.

Fire alarm bell

#### Gas alarm

Warning for the staff about impending gas cloud  
*Action:* Go to shelter, close the doors, windows and the air conditioning. Follow instructions.

Duration aprx. 1 min, period 7 sec



#### Danger over sign

Notification that the threat or danger is over.

A flat tone

Duration aprx. 1 min



#### Test sign

Every monday at 12.00

Duration 7 sec



Warning signal for **blast** in mine site:

- 3 min of discontinuous sound
- 1 min continuous sound
- Blast!

**National emergency center: 112**  
(remember guidance from the main gate to the accident scene)

**Internal emergency number: 010 215 6200**

### Help yourself and others at risk situations

Call for help

Warn others about danger

Limit spreading of danger

Put out fire

Give instructions

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