



# Safety at CERN

*La sécurité au CERN*



**Christoph BALLE**  
Safety Training



**HSE**

Occupational Health & Safety  
and Environmental Protection Unit

# **Safety at CERN**

*La sécurité au CERN*

# ① Occupational Health & Safety

*Santé et sécurité au travail*

# ② Environmental Protection

*Protection de l'environnement*

# ③ Safety of Equipment and Installations

*Sécurité des équipements et des installations*

# ④ Operational Safety

*Sécurité de l'exploitation*



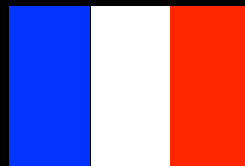
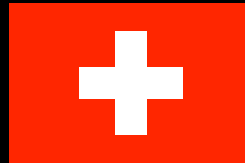
# Safety Policy Committee

*Comité pour la Politique de Sécurité*

SAPOCO

## Safety Rules

*Règle de Sécurité*



# **Safety Responsibilities**

*Responsabilités en matière de Sécurité*

# Director General



## Administration & General Infrastructure

## Research & Scientific Computing

## Accelerators & Technology

FP

GS

HR

IT

PH

BE

EN

TE

Advanced  
Info Syst.

Integrated  
Services

Site  
Engineering

Scientific  
Information

Admin  
Support

Logistics

Site Services

Stores  
Operations

Sectors

Dep.

Groups

Sections



**HSE**

Occupational Health & Safety  
and Environment Protection Unit

# Safety Engineering & Environment

*Ingénierie de Sécurité & Environnement*

## Environment Monitoring

*Surveillance de l'Environnement*

## Safety Engineering

*Ingénierie de Sécurité*

## Occupational Safety

*Sécurité au travail*

## Safety Inspections

*Inspection de Sécurité*

## Safety Training

*Formation à la Sécurité*





# Radiation Protection

*Radioprotection*

## Research & Design Studies

*Recherche & études de conception*

## Operational Radiation Protection

*Radioprotection opérationnelle*

## Dosimetry

*Dosimétrie*

## Waste

*Déchets*

## Radiation Monitoring

*Surveillance radiologique*





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Site  
Engineering

Scientific  
Information

Fire &  
Rescue



Admin  
Support

Logistics

Site Services

Stores  
Operations



FIRE & RESCUE



CERN

FIRE

RES

**FIRE & RESCUE**



**SECOURS & FEU**



**FIRE & RESCUE**

**FIRE – ACCIDENT  
POLLUTION**



**74444**

**SECOURS & FEU**

# Director General



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Scientific  
Information

Fire &  
Rescue



Medical  
Service



Admin  
Support

Logistics

Site Services

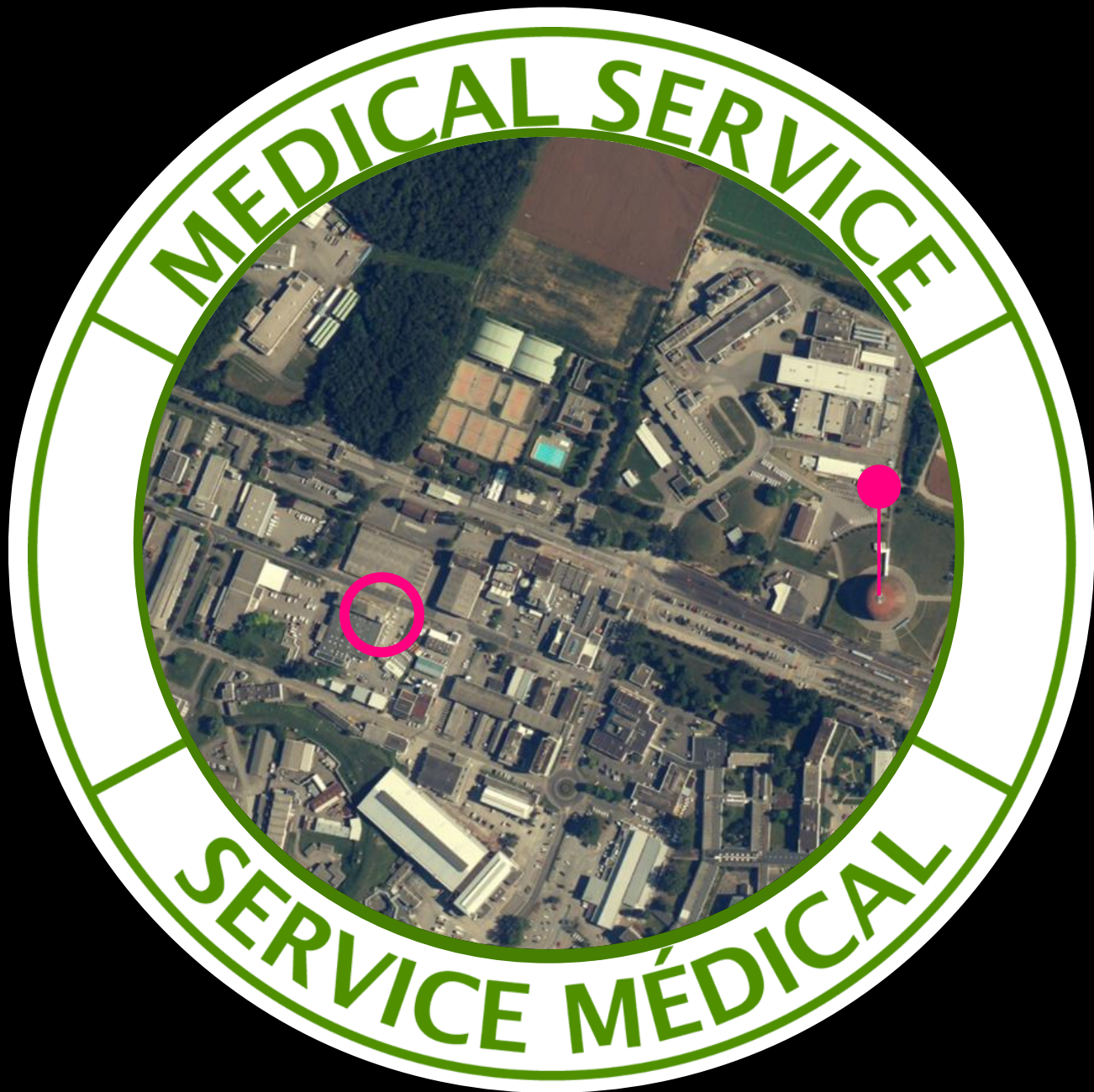
Stores  
Operations













MEDICAL SERVICE

ILL - INJURED



74444

SERVICE MÉDICAL

# Director General



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## Research & Scientific Computing

## Accelerators & Technology

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Advanced Info Syst.

Integrated Services

Site Engineering

Scientific Information

Fire & Rescue



Medical Service



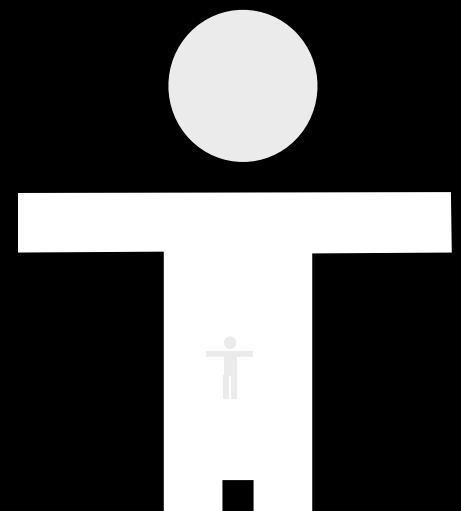
Admin Support

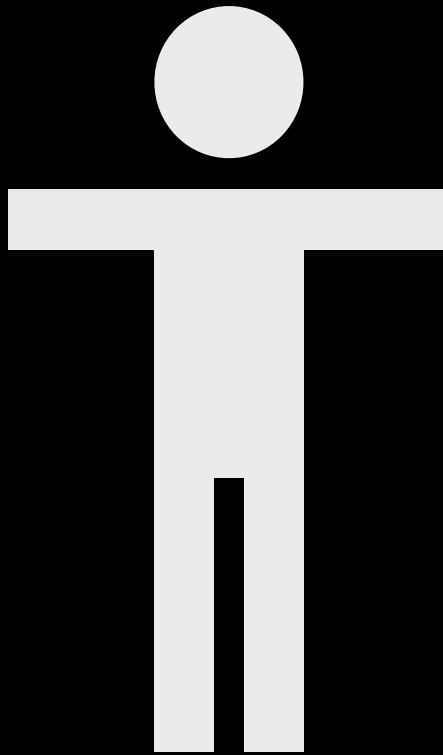
Logistics

Site Services

Stores Operations

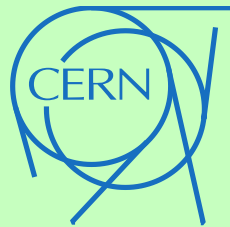




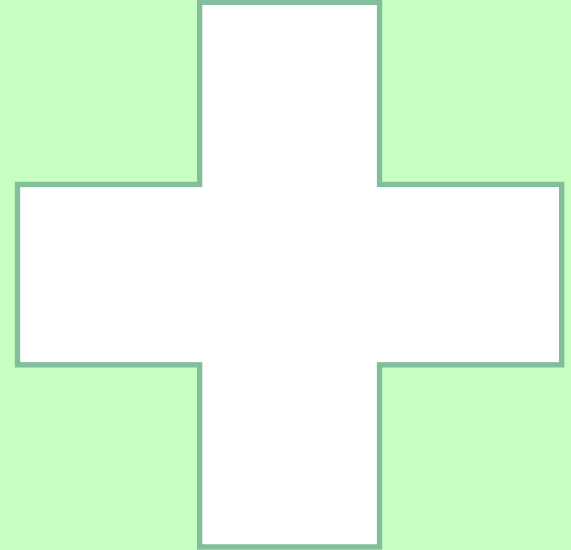


**First Aider**

*Secouriste*

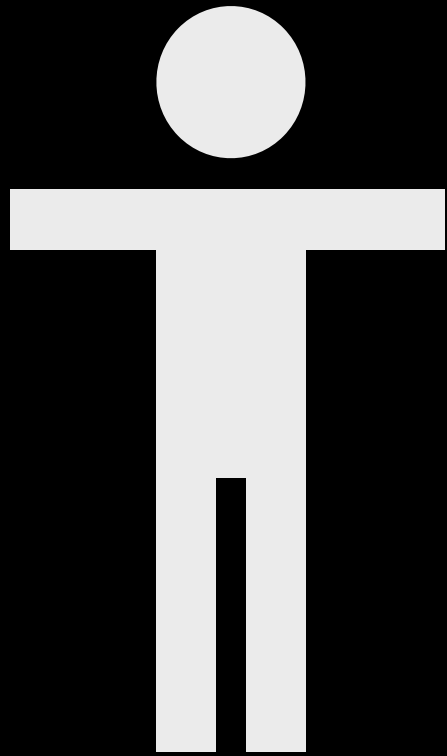


# FIRST AIDER SECOURISTE



**NAME : Jean-Pierre DUCHEMIN**

**VALIDITY: 12 November 2015**



**First Aider**

*Secouriste*



# Director General



## Administration & General Infrastructure

## Research & Scientific Computing

## Accelerators & Technology

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Advanced Info Syst.

Integrated Services

Site Engineering

Scientific Information

Fire & Rescue



Medical Service

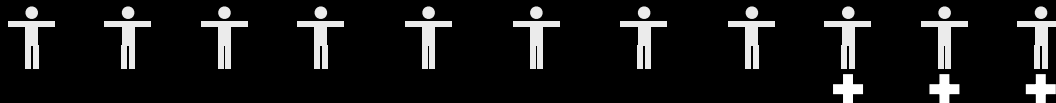


Admin Support

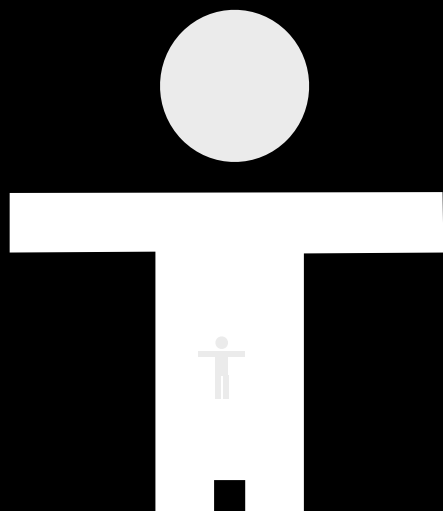
Logistics

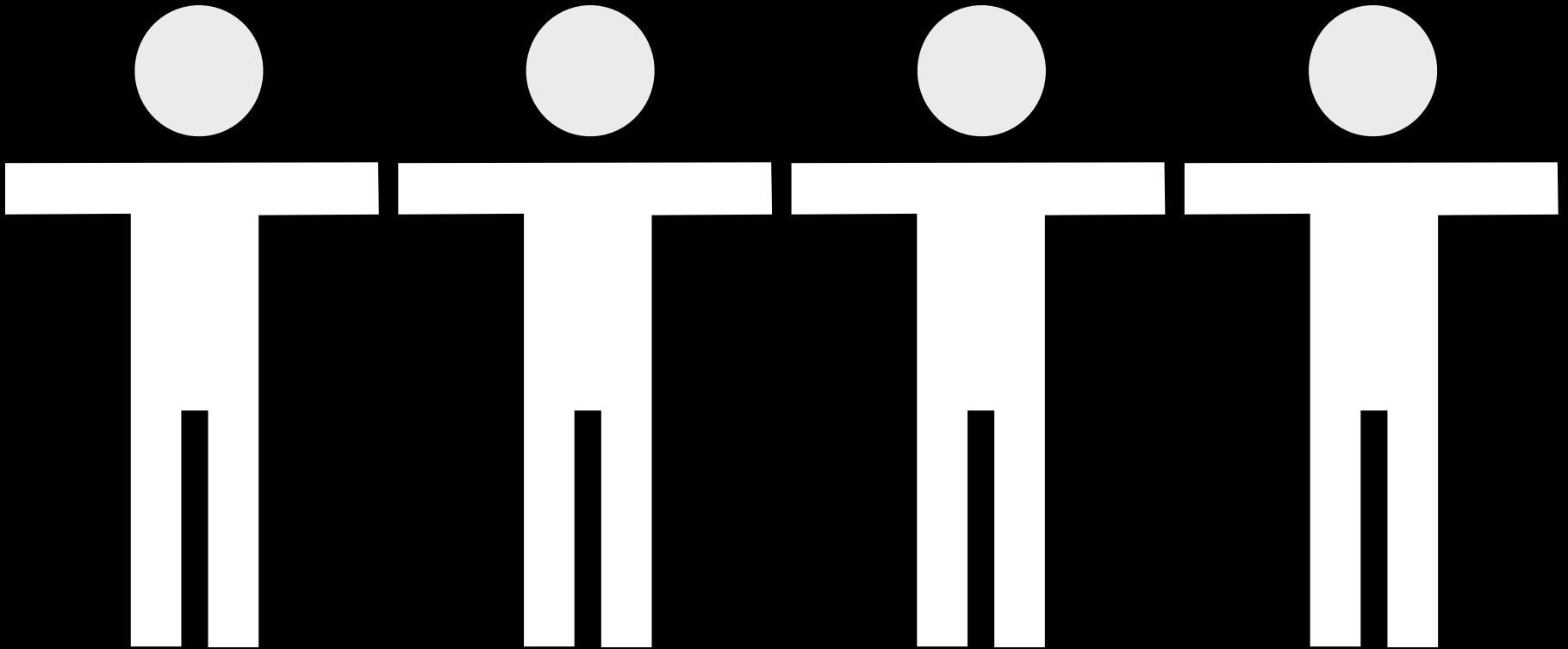
Site Services

Stores Operations









**Territorial  
Safety Officer**

*Délégué à la Sécurité  
Territoriale*

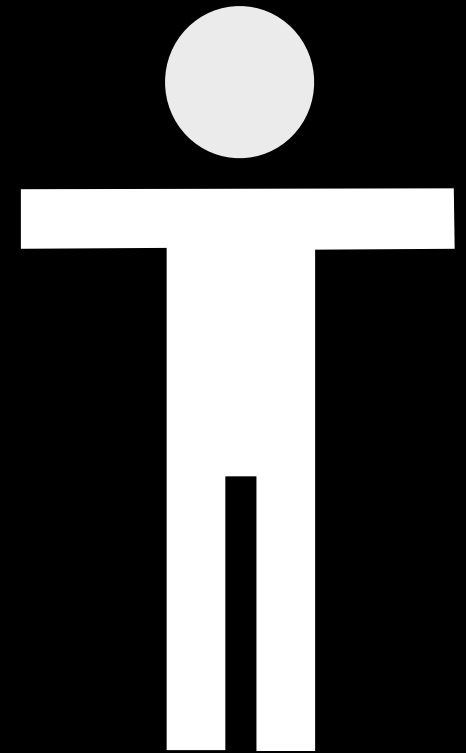
**TSO**

**BUILDING N°: 192** \_ \_ \_

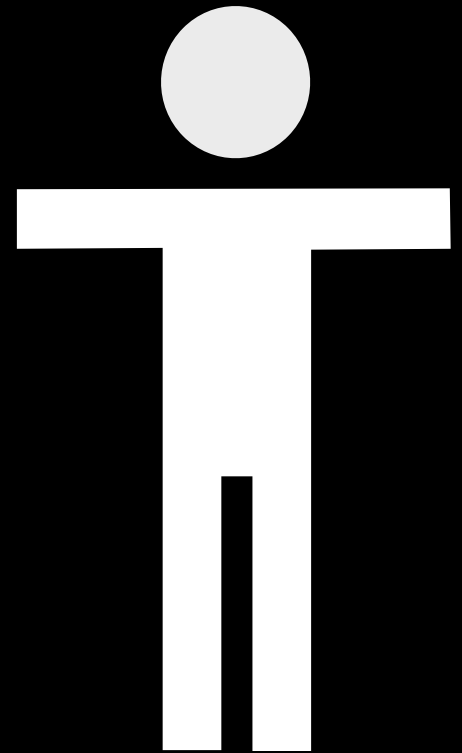
**Territorial Safety Officer**

**T. Jones** \_ \_ \_ \_ \_ **Dep.: TE** \_ \_ \_ \_ \_

**Tel / GSM: 74711** \_ \_ \_ \_ \_



**TSO**



TSO

# Director General



## Administration & General Infrastructure

## Research & Scientific Computing

## Accelerators & Technology

FP DSO

GS DSO

HR DSO

IT DSO

PH DSO

BE DSO

EN DSO

TE DSO

Advanced Info Syst.

Integrated Services

Site Engineering

Scientific Information

Fire & Rescue



Medical Service



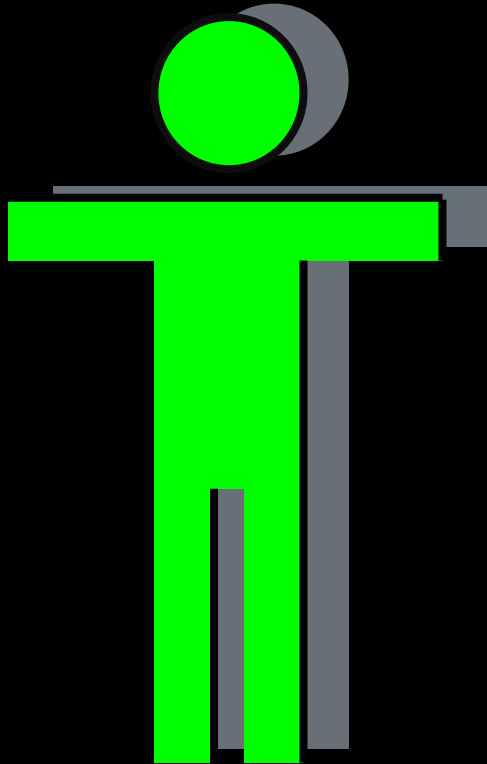
Admin Support

Logistics

Site Services

Stores Operations

SO TSO TSO PSO FGSO RSO EXSO CSO + + +



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you

Occupational Hazards

https://edh.cern.ch/apps/OHS/

CERN Accelerating science Signed in as: BALLE Sign out Directory

EDH SAFETY FORM OHS-0-0-3 IDENTIFICATION OF OCCUPATIONAL HAZARDS

New Declaration Save Print Help

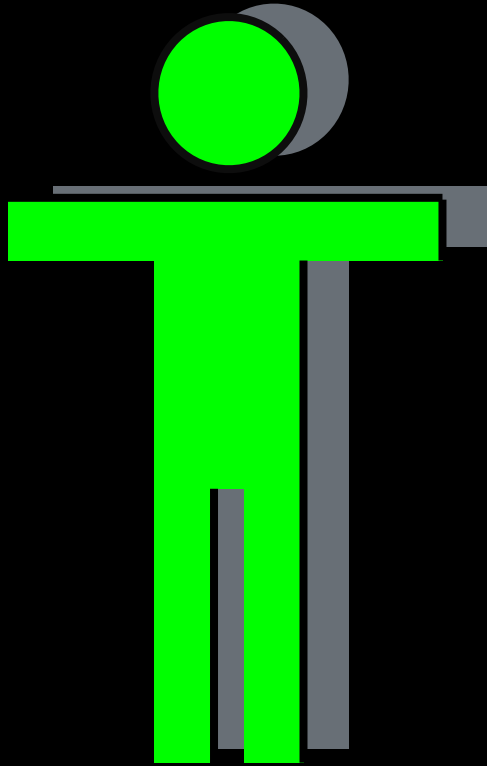
User Details Risks Declaration

Hide all details Show all details  Only declared risk(s)  Show the details when selected

- 100 - Mechanical hazards
- 200 - Electrical hazards
- 300 - Chemical hazards
- 400 - Fire/explosion hazards
- 500 - Hazards associated with ionising radiation
- 600 - Hazards associated with non-ionising radiation
- 700 - Cryogenic hazards
- 800 - Biological hazards
- 900 - Road and traffic hazards
  - 901 - Driving of motor vehicles
  - 902 - Use of bicycles

Others (please specify)

Electronic Document Handling System (EDH) v. 14.09.A prodEDH\_A\_5 In case of problems or for any question, please [click here](#)



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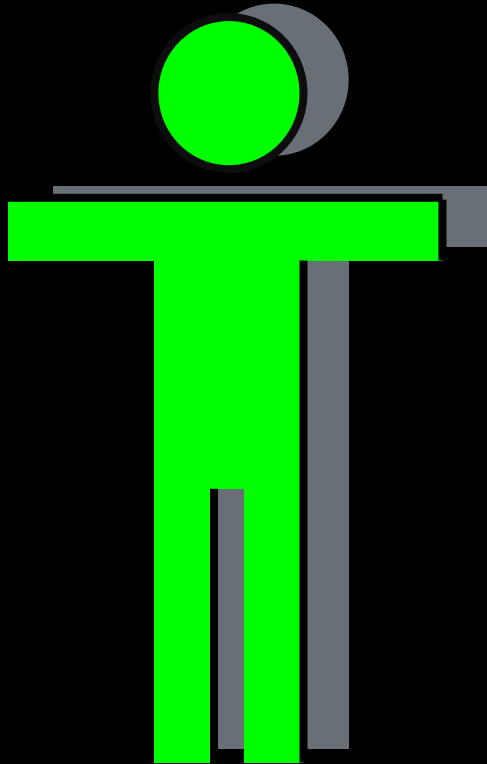


**Personal Protective Equipment**

**PPE**

*Equipement de Protection Individuelle*

*EPI*



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CERN Stores Catalogue (50.00)

https://edh.cern.ch/edhcat/Browser?command=showPage&argument=251584&top=251584&objid=%24%24EDH6kj

### CERN Stores Catalogue










SCEM Code:  Keyword(s):

50.00 - PHOTOGRAPHIC INDEX

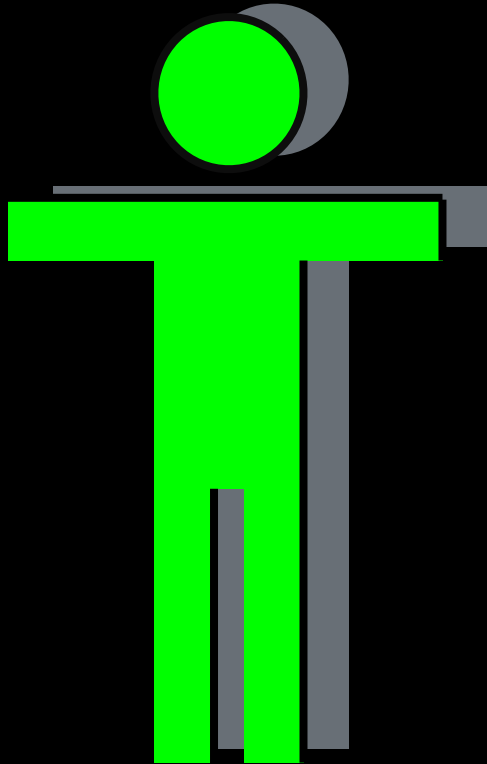
[For any further technical information additional - click here](#)

Click on the links below to get the right page OR enter the page number in the "SCEM Code" field, then, click the "Search" button

[back to Index 50 group](#)

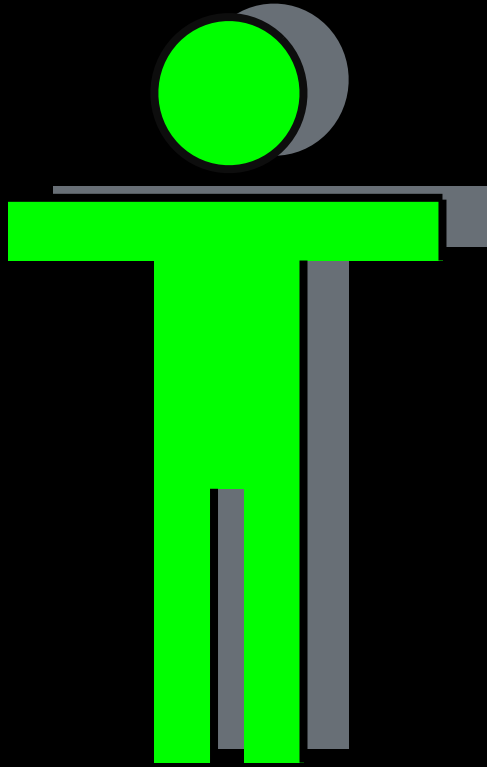
Buy	SCEM Code	Unit	Unit Price
	50.43.10		50.43.20
	50.43.50		50.43.90
	50.44.10		50.44.20
	50.48.01		
	50.49.10		50.49.15
	50.49.20		50.50.09
	50.55.80		50.55.81
	50.55.82		50.55.83



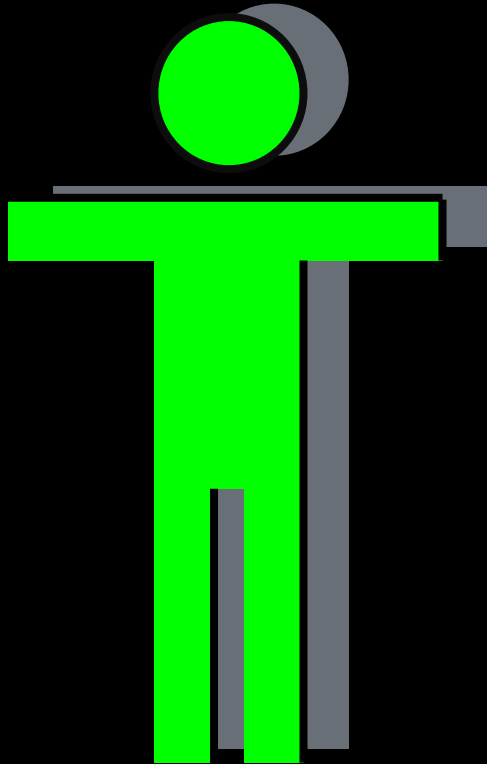


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CERN | SIR | Portable ODH Detector

https://sir.cern.ch/sir/?p=106:56:211076457383627:::MODULE\_CURRENT\_ID,FIRST\_TIME\_IN\_PAGE:1603,1

Reader

# SIR - Safety Information Registration

Main Menu > Portable ODH Detector > Portable ODH Detector (Module 1)

English

OUTLINE NOTES



Search...

1. Portable ODH Detector
2. Please turn on the SOUND
3. Explanation of the player
4. Prerequisite for this course
5. Learning objectives In this e-learning course you will learn ...
6. Portable ODH Detector CERN configuration
7. Portable ODH Detector CERN configuration
8. Portable ODH Detector CERN configuration
9. Operation Pick-up
10. Operation Switch on
11. Operation Wearing
12. Operation Running Mode
13. Operation Switch off
14. Operation Storage
15. Alarms
16. Alarm ODH (Oxygen Deficiency Hazard)
17. Alarm ODH (Oxygen Deficiency Hazard)
18. Alarm Battery almost empty
19. Alarm Battery empty
20. Alarm Malfunction
21. Summary of the course
22. ...

## Alarm

ODH (Oxygen Deficiency Hazard)

# A1

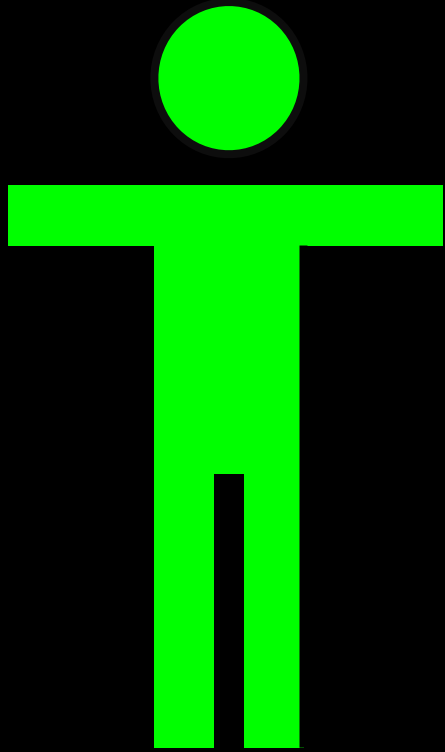


Dräger 4 am 5000

18.0  
O<sub>2</sub> Vol%

PREV NEXT

16 / 22 05:44 / 07:47

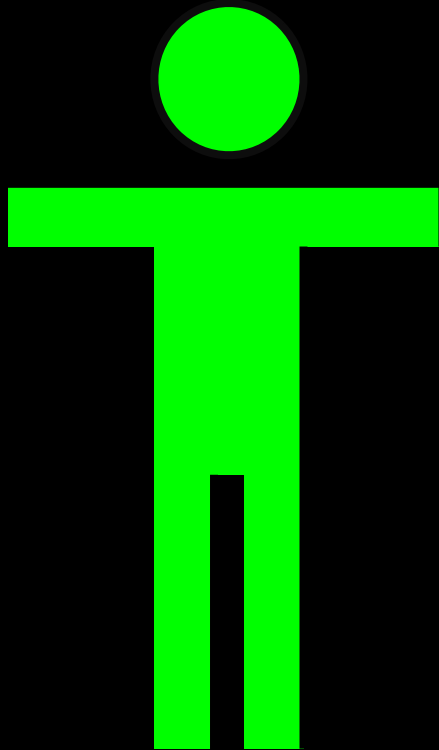


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## THE CERN SAFETY POLICY

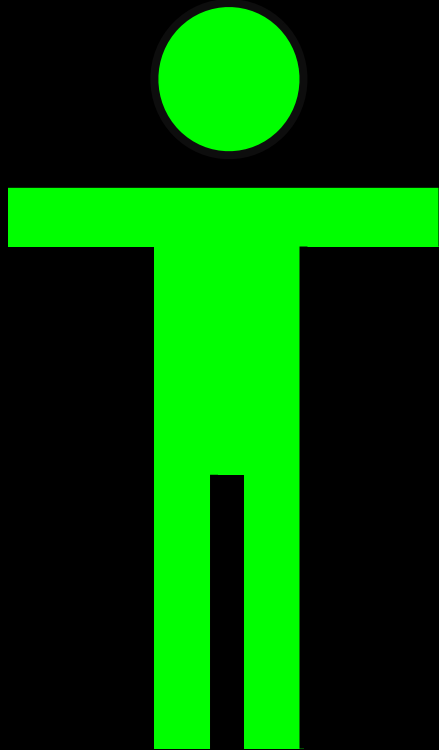
Each person [...] shall actively contribute to the implementation of the CERN Safety Policy through

- exemplary conduct and [...]
- compliance with CERN Safety Rules [...]
- actively seeking information to minimise risks,
- avoiding dangerous situations for herself/himself and [...]
- exercising the responsibilities assigned to her/him safely.



you

	<b>Abstract</b> in each Guidelines agents Works plecing to store				
RES	<b>Referred</b> (1) Gov.				
	<b>Further</b> - Regu pack Road - EN 1 - EN 1 - Safe				
	<b>Referred</b>				
	<b>Prepar</b>				
	<b>Verifie</b>				
	<b>Approv</b>				
	<b>Distrib</b>				
	<b>Rev. M</b>				
	3.0				
	4.0				
	5.0				
Publicat All CERN	Publicat All CERN	Publicat All CERN	Publicat All CERN	Publicat All CERN	Publicat All CERN
Page 1					
					<b>CODE DE SÉCURITÉ SAFETY CODE</b>
					Mandatory as defined in SAPOCO/42
					<b>A2 Rev. 3</b>
					Edited by: Director-General
					Date of issue: May 2005 Original: English
					<b>Reporting of Accidents and Near Misses</b>
					<b>Contents</b>
					<b>1 Legal Basis</b> 1
					<b>2 Scope of Application</b> 1
					<b>3 Definitions</b> 1
					<b>4 Objectives</b> 1
					<b>5 Procedure</b> 2
					<b>6 Information Process</b> 2
					<b>7 Entry into Force</b> 2
					<b>Appendix 1</b> 3
					Internal Accident Report
					EDMS: 335502



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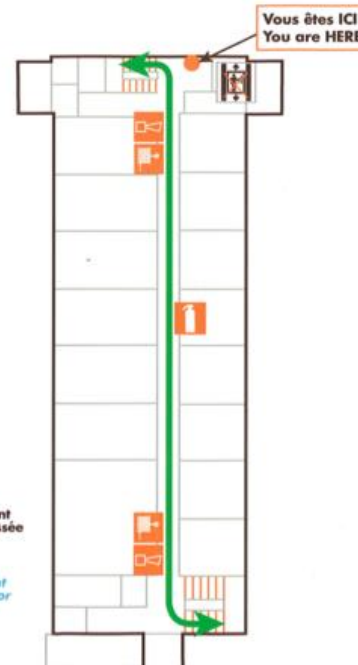
## URGENCE / EMERGENCY

**INCENDIE / FIRE**

- 74444**
- Donner l'alarme**  
*Set off the alarm*
- Combattez le feu**  
*Start fighting the fire*
- L'air frais est près du sol**  
*Fresh air may be closer to floor*
- N'utilisez pas l'ascenseur**  
*Do not use the lift*

- Point de rassemblement**  
*Meeting point*
- Voies d'évacuation**  
*Escape routes*
- Alarme**  
*Alarm*
- Lance incendie**  
*Fire hose*
- Extincteur**

**BATIMENT 36**  
**BUILDING 36**  
**3<sup>ème</sup> étage**  
**3<sup>rd</sup> floor**

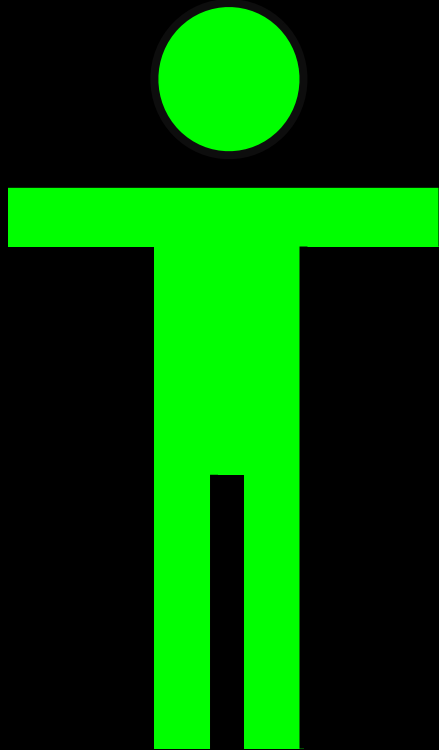


**EVACUATION**

- Lorsque le signal d'évacuation retentit**  
*When the alarm rings*
- Suivez le balisage**  
*Follow the signs*
- N'utilisez pas l'ascenseur**  
*Don't use the lift*
- Se rendre sur le point de rassemblement**  
*Go to meeting point*

**ACCIDENT**

**74444**



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A new era of safety at CERN – CERN Bulletin

cds.cern.ch/journal/CERNBulletin/2014/41/News%20Articles/1756358?ln=en

Reader

CERN Accelerating science Sign in Directory

**CERN Bulletin** News Articles Official News Training Announcements Events Staff Association

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Issue No. 41-42/2014 - Monday 6 October 2014

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60 years of celebrations  
A worthy celebration  
LS1 Report: NA62 readies for beam  
A new era of safety at CERN  
See how people wished CERN a happy birthday with #MyCERN60  
Open Access: there is something you can do...  
From CERN people to the world

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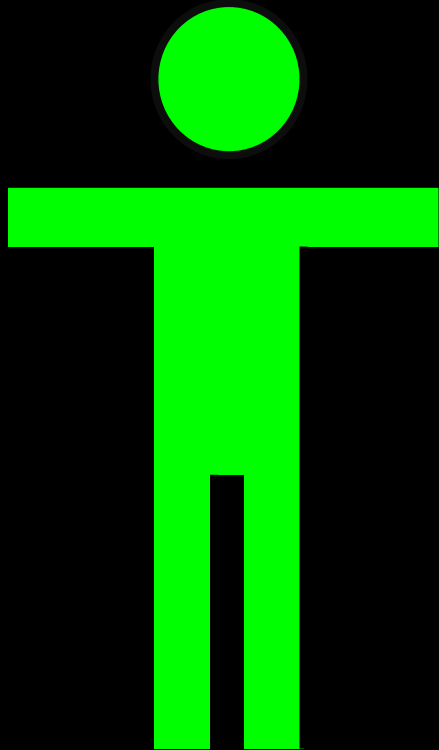
Behinds the scenes of GS: a DSO like no other  
Computer Security: How to succeed in software deployment

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### A NEW ERA OF SAFETY AT CERN

CERN is modernising its safety policy and organisational structure in matters of Safety with the introduction of new reference documents that have come into force on 29 September. These texts adapt the Organization's safety policy to take account of how the Laboratory has evolved and to include best practice in Safety matters.

Safety is a priority at CERN, so it's no coincidence that the Organization's anniversary has been chosen as the time to launch a modernised approach to its Safety policy and how Safety matters are organised. On the day of CERN's 60th anniversary, the SAPOCO 42 document, which covered both policy and organisational aspects, was replaced by a more concise **general policy statement**. The organisational structure and responsibilities in matters of Safety are now set out in a **Safety Regulation**, that is supplemented by



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Internal Accident Report

https://edh.cern.ch/Document/General/Accident2

Internal Accident Report

Reload Clone Attach Pr.View Save Send Help

Confidential Urgent

Fields with asterisks (\*) are mandatory and must be filled in.

Created by **Christoph BALLE (DGS-SEE-ST)** Tel: 75280 164119 on 26.12.2014

Applicable administrative procedure : "Accidents"

**What**

Type of Safety Issue\*:

Accident :

Personal Accident :

Near miss :

Hazardous Situation :  ?

Short description\*:

Detailed Description\*:

Immediate action taken:

**When**

Date\*:

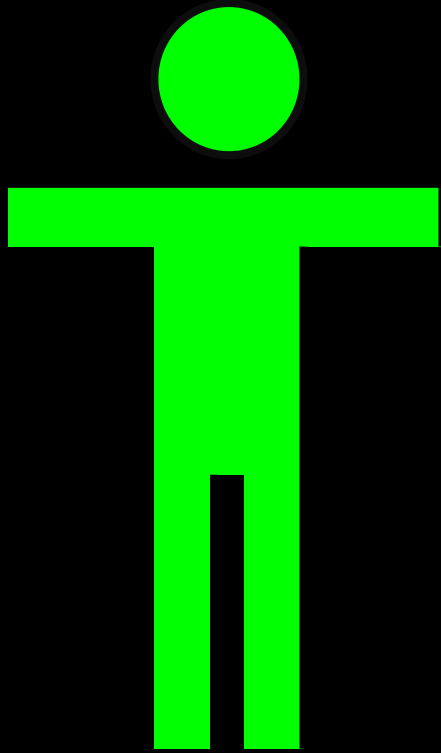
Time\*:

**Where**

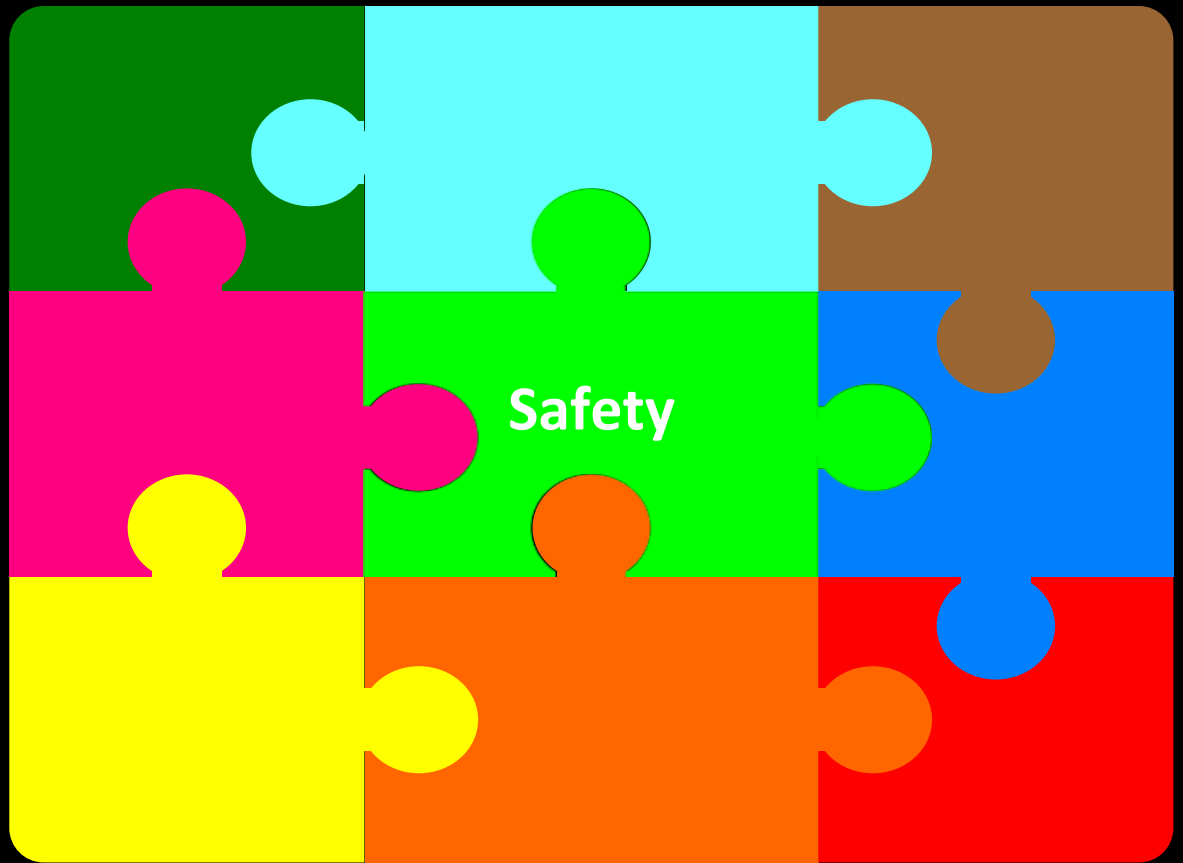
On CERN site\*:

Details about the location\*:





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# Occupational Accidents

*Accidents professionnel*

Falls

*Chutes*

Handling

*Manutention*

Hits & false move

*Hurts & mouvements*

Road traffic

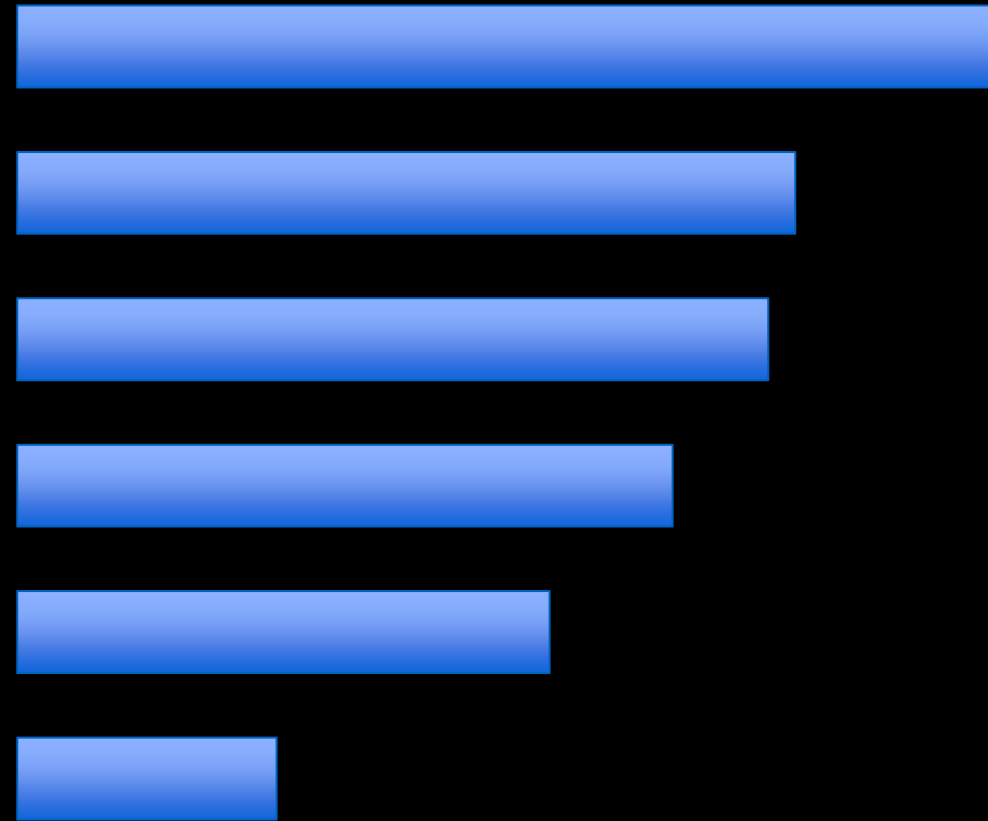
*Circulation routière*

Tools

*Outils*

Others

*Autres*



0 10 20 30 40 50 60 70 per year  
*par année*

# Safety is a priority for CERN

*La Sécurité est une priorité pour le CERN*



Rolf Heuer, DG

I firmly believe that our success can only be built on a strong safety culture providing a safe and secure environment for all, whether they be staff, users, contractors or visitors.

*Notre succès ne peut se construire que sur une culture de la Sécurité forte et proactive dans tous les domaines de la vie de l'Organisation.*



[www.cern.ch](http://www.cern.ch)

**Questions?**

*Questions?*

# More Information

*Plus d'information*

The screenshot shows the CERN Directory website. The browser address bar displays 'directory.web.cern.ch/directory/'. The page header includes 'CERN Accelerating science' and navigation links for 'Sign in' and 'Directory'. A search bar is present with a 'Phonebook' dropdown and a 'Search' button. The main content area is divided into two sections: 'Departments, groups and units' and 'Training and development'. In the 'Departments, groups and units' section, the link for 'HSE - Occupational health and safety and environmental protection unit' is circled in orange. In the 'Training and development' section, the link for 'Safety Training' is also circled in orange. A 'USEFUL CONTACTS' sidebar on the right lists various services with their respective numbers: Emergencies (74444), Computer security (70500), CERN service portal (77777), and Switchboard (111). A 'JUMP TO SECTION' sidebar on the right lists various categories like 'Departments, groups and units', 'Experiments and projects', 'Applications', 'Admin and procedures', 'Maps and access', 'News and events', 'Accelerators and physics', 'Documents, reports and publications', 'Committees and council', 'Working at CERN', and 'Life at CERN'.

Directory | CERN

directory.web.cern.ch/directory/

CERN Accelerating science

Sign in Directory

**The CERN Directory**

Search for what you need, or browse CERN websites. Looking for the [Scientists](#) or [CERN people](#) sections, or just curious about CERN?

Phonebook Phonebook search Search

**USEFUL CONTACTS**

Emergencies	74444
Computer security	70500
CERN service portal	77777
Switchboard	111

**Departments, groups and units**

*CERN's departments*

- BE - Beams
- EN - Engineering
- FP - Finance, procurement and knowledge transfer
- GS - General infrastructure services
- HR - Human resources
- IT - Information technology
- PH - Physics
- TE - Technology
- TH - Theory Unit
- DGU - Director-General unit
- EU projects office
- HSE - Occupational health and safety and environmental protection unit**
- SRO - Stakeholder relations office
- The structure of CERN

**JUMP TO SECTION**

- Departments, groups and units
- Experiments and projects
- Applications
- Admin and procedures
- Maps and access
- News and events

**Training and development**

*Schools, training and development*

- Academic training lectures: Regular programme
- Academic training lectures for postgraduate students
- Academic training lecture videos
- CERN accelerator school (CAS)
- CERN school of computing (CSC)
- European schools of high-energy physics
- HR learning and development
- Latin-American schools of high-energy physics
- Safety Training**
- Summer students programme

Accelerators and physics

Documents, reports and publications

Committees and council

Working at CERN

Life at CERN

