

# DESY Safety Information for Visitors and Guests

## 1. Safety Organisation

Supervision responsibilities and the responsibilities for the safety and environmental protection have been transferred to

- **Responsible persons** and
- **People responsible for areas**

at DESY.

Within the groups

- **Radiation protection officers** are named as responsible for radiation protection.

### Contact persons for safety issues:

#### **Safety and environmental group -D5-** (Hazardous substances, waste material etc.)

- Mr. Hoppe (Tel.: 3585)
- Mr. Mohr (Tel.: 4831)
- Mr. Döring (Tel.: 3513)
- Mr. Purnhagen (Tel.: 3514)

#### **Radiation protection group -D3-**

- Mr. Tesch (Tel.: 4915)
- Mr. Leuschner (Tel.: 2043)

#### **DESY Company Doctor -BA-**

- Dr. Bünz, (Tel.: 2171)

#### **SAVE 1 – Technical emergency service**

- Mr. Witzig (Tel.: 4826)
- Mr. Kusche (Tel.: 3501)

**DESY- Emergency Number**  
**In the event of fire, an accident or other emergencies**

**Tel.: 2500 (internal)**  
**Tel.: 040-8998-2500 (external)**

Please provide the number of your telephone in the event of an emergency. The emergency calls will be directed to the **technical emergency service**, which will arrange all further measures.

### **Technical faults**

**Tel.: 5555 (internal)**  
**Tel.: 040-8998-5555 (external)**

The employees are available day and night.

## 2. Safety Instructions

Nobody may begin work or enter experimental facilities at DESY without having received **safety instructions** on particular risks at the workplace, warning, auxiliary and life-saving equipment and behaviour in emergencies as arranged by the responsible person or the person responsible for the area.

Issue of an access card for independent access to controlled areas depends on safety instructions. Please contact the responsible person.

## 3. Companies

The person who commissions external companies must ensure that the work is registered with the person who is responsible for the work area or with the person responsible for the area and that the employees of this company receive safety instruction.

## 4. Traffic

The general traffic regulations in accordance with StVO (German highway code) are valid on the DESY premises. The speed limit is 30 km/h.

Caution must be exercised, particularly because of the many pedestrians and special transportation. **Low speeds** must be maintained in blind spots (curves, narrow points, building sites etc.).

## 5. Cranes and Equipment

Cranes and motorised lifting machinery may only be operated by authorised persons. Following consultation with the -MEA- group (Tel.: 3730) and the safety group -D5- it is possible to transfer unlimited authorisation to drive cranes to suitable and instructed guests.

## 6. Electrical Systems

The VDE (German institute of electrical engineers) regulations are valid at DESY.

Please obtain instruction regarding the specific electrical hazards in the specific area from the responsible person or the person responsible for the area before entering experimental areas and accelerator rooms.

## 7. Electromagnetic Fields

Persons with **heart pacemakers** and **other implants** must be registered with the responsible person or the person responsible for the area before work begins.

**Electromagnetic fields** that could be hazardous to humans are marked. Widely varying types of hazard are possible.

Strong and possibly uncontrollable forces from electromagnetic fields affect spectacle frames, tools etc. and can result in damage to property and persons. The objects can be torn into the magnetic field and cause damage there, e.g. short circuits to electrical equipment and the destruction of foils on gas apparatus.

Persons with heart pacemakers must always stay away from these systems.

Numerous high performance **high frequency systems** are operated at DESY and these are sufficiently shielded to the outside. It is strictly forbidden to undertake any interventions (releasing screws or flanges etc.) on these systems.

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### 8. Radiation protection areas

Life-threatening levels of radiation are created while accelerators are in operation. Entrances to these restricted areas are marked with signs:



#### Access to these areas is prohibited!

Rooms with increased but permissible radiation levels are termed controlled areas:



#### Unauthorised persons are not permitted to enter these areas!

The following conditions must be fulfilled before accessing controlled areas: job order, necessary instructions and a current dosimeter. The responsible radiation protection officer will provide instruction and information on all other details.

All boundaries on radiation protection areas such as fences, bars, shielding blocks, concrete shielding etc. may not be modified or removed.

### 9. Gases

Procedures must be determined in operating instructions when gases are used in order to remove all hazards.

Systems and piping systems with **flammable gases** must be accepted by group -MEA6- before initial operation.

Gases must be procured from the gas store DESY - MEA6-. Exceptions are only possible following consultation with -MEA6- (Tel.: 3884).

European designations are valid for the labelling of pressure cylinder.

The handling of **cryogenic, liquefied gases** is limited to certain work groups. Detailed instruction must be given by the person responsible for the area before work is carried out with these materials.

### 10. Permit for Work involving a Fire Hazard and Work that produces Dust

Welding, cutting, soldering and flex work must be registered with the relevant responsible person because of the fire hazard involved.

The safety measures for this work must be determined and documented in the permit.

The same process is valid for all work during which the locally installed fire alarm equipment can be activated, e.g. dust-work.

-SAVE 1 (Tel.: 5555)- must be informed before beginning and after completion of this kind of work so that switch smoke alarm lines in the working area on or off.

### 11. External Devices

Devices and apparatus brought in by external groups, the use of which may be associated with hazards, must be registered with the relevant responsible persons and inspected and accepted by the safety group -D5- if necessary. These devices include pressurised containers, gas supply systems, lasers or the external group's own electrical equipment.

### 12. Hazardous Substances

Work with hazardous substances and hazardous substances brought in by external groups must be registered with the responsible person with a current safety data sheet. When the work is finished the hazardous substances brought in by external groups must either be taken away again or correctly disposed of. Please contact group -D5- (Tel.: 3514) with any questions regarding hazardous substances or their disposal or transportation.

### 13. Ban on Alcohol and Smoking

It is prohibited to work on the DESY facilities under the influence of alcohol or drugs.

Smoking is only permitted in the signposted smoking areas.

### 14. Lasers

Lasers and laser systems of the classes 3b, 3r and 4 must be registered by -D5- (Tel.: 3513) with the authorities before they are operated at the DESY facilities. A laser protection officer must be named who can also prescribe measures for safe installation and operation. The safety apparatus on the laser systems must be determined with the groups -D5- and -MEA3-.

### 15. Internal Links to DESY Safety Sites for further Information

**Safety and environmental group -D5-**  
<http://D5.desy.de>

**Radiation protection group -D3-**  
<http://www.desy.de/d3/d3index.html>

**DESY- Company Doctor – BA-**  
<http://ba.desy.de/>

**Technical emergency service -SAVE-**  
<http://save.desy.de/>

**Workers' Council**  
<http://betriebsrat.desy.de/>