



EUROPEAN  
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SOURCE

# Lab and Workshop Safety

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- User Safety
- Roles and responsibilities within H&S
- Current Situation – Utgård,
- Future Situation – Workshops on site
- Current Situation – Medicon Village
- Future situation – labs on site

- All experiments at ESS will go through the Experiment Safety Review to establish how safety can be ensured throughout the experiment
- For safety and security of the sample the Sample Handling procedure is used that covers the sample's lifetime at ESS.
- Training, PPE, handling of sample and equipment are among the things the Experiment Safety Document covers.

- **SWOCOR/Area Safety Coordinator**

Person appointed to manage the shared workspace, one aspect is safety. Coordinates the events and initiates and leads the safety activities with group representatives, OHS and safety delegates.

- **OHS Engineer**

Overviews procedures, assists in hazard analysis and risk assessment. Technical expert on health and safety related issues. This function also provides electrical safety guidance.

- **Line Manager**

Legally responsible for the safety of the people in their line

- **Employee**

Responsible for following procedures and raise any issues to proper person.

# Current Situation – Utgård

## Hazard Analysis



- **AHA – Area Hazard Analysis**

An overview of all hazards present to a specific area. Quarterly safety inspections act as a compliment to the AHA. For Utgård most of the common tasks and planned activities are covered by the AHA. Various areas are: main area; TBP lab; Hot areas etc.

Updated at least twice per year.

- **JHA/WHA – Job/work Hazard Analysis**

Being done for specific jobs involving higher risks or one-off jobs. Done in connection to the job and approved by OHS engineer and Line Manager of worker. Anyone performing the task must sign and follow the rules in the JHA

- **Risk Assessment for Heavy Machinery**

Specific tools fall under this category. They need a hazard analysis of their own.

# Future Situation – Workshops on site

- Will be in supervised area, radiation present (activated components), but no contamination in normal operation.
- As the work with an area coordinator is going well, we are hoping to continue this on site, maybe with an overall coordinator for all workshops as well.
- If needed, users may get access to the workshops, depending on the work it might be supervised by ESS staff. This will be determined by the Experiment Safety Review.
- Access management is based on security and training

- Work Hazard Analysis is used for all tasks. The ESS suggested area hazard analysis is not used, but the lab uses a manner more practical for chemical labs.
- External personnel may gain access, but will be supervised by ESS staff and they must comply with the WHA for their job.
- No ESS overall approach to safety in chemical labs.
- New OHS engineer will be recruited, focus on chemical safety is important.
- A balance between legal compliance and practically manageable way of working needs to be found

- Labs open for ESS Staff as well as ESS users.
- For ESS staff we will work with WHA for their tasks.
- ESS users will get an “Experiment Safety Document” which will act as their WHA, unique to their experiment.
- Sample management and handling will also be done on an experiment-to-experiment basis and cover the sample’s lifetime at ESS.
- Training for users will be determined in the ESD and access will be granted based on security and training clearance.



# Challenges – Labs and Workshops

- Applying and complying with laws in a practical manner
- Complying with ESS wide procedures that are not always feasible for us
- Cater for our various users of labs and workshops (ESS internal staff, ESS visitors and contractors, ESS users) in line with ESS wide procedures