Environment, Safety, Security and Quality

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ESH&Q mission

• Develop and maintain the ESH&Q strategy with focus upon

  – regulatory compliance strategy
  – ESS safety and quality culture
  – continual improvement of related programs and activities
  – coordination of licensing activities and contacts with the host state(s) in ESH&Q matters
Who are we

- 35 FTE
- 6 contracted staff
- Manage all consultancy contracts for ESS within ESH&Q
Environment

• Swedish Environmental Act – ESS has a permit
  – A number of conditions for construction (spring water, ground water, noise etc.)
  – For the operation
    • Handling of spring water
    • Handling of radioactive waste

• Ambitious environmental policy as for a research facility
  – Energy savings
  – Green energy
  – BREEAM system for buildings
Security

• Physical protection
  – Due to handling of activated material, physical protection is needed
  – Availability for all users requires integrated solutions

• Information security
  – An area which will be more and more important
  – Restriction needed for vital system
  – Availability needed for scientific users
Safety Training

24 class room courses: ATEX; BAS-U; Forklift truck; Crane Operator; Electrical Safety (Basic); Electrical Safety (Advanced); Fall Protection; Hot works; First Aid (Basic); Mobile Elevated Work Platform; Preparing archiving of paper documents; RP - Supervised Areas; RESSQ-Mech; Safe Lifting; Scaffolding; Site Safety Induction; Site Visit Responsible Training; Slinging & Rigging; Use and Inspection of Pressurized Devices; Use of Epoxy; Conventional Waste Management; Chess Basic Training; Alarm Panel Training

7 e-learning courses: Cryogenic Safety (Awareness); Electrical Safety (Awareness); Test Stand 2 training; Incident Reporting at ESS; Safety in G01 training; ESA 14; RP Awareness

Courses followed: 2018 vs. 2019 (until August)
## Status of Catalogue Development

<table>
<thead>
<tr>
<th><strong>SAFETY</strong></th>
<th><strong>SECURITY</strong></th>
<th><strong>QUALITY</strong></th>
<th><strong>OTHER FIELDS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Safety</td>
<td>Information Security</td>
<td>Document Management</td>
<td>Test Stand 2 &amp; 3</td>
</tr>
<tr>
<td>Risk Management</td>
<td>Emergency &amp; Crisis Management</td>
<td>ESS Management System</td>
<td>Control System &amp; Hardware Group</td>
</tr>
<tr>
<td>Environmental Protection</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Safety Induction</td>
<td></td>
<td></td>
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<tr>
<td>Emergency Preparedness</td>
<td></td>
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<tr>
<td>Chemical Safety</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Radiation Protection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>NSS &amp; Laboratories</td>
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**Example:** Electrical Safety  
**Developed:** Electrical Safety Awareness  
**About to be released:** ESA (Electrical Safety Instructions) Instructed; ESA Skilled  
**In development:** Electrical Safety Leader; Electrical Operation Leader  
**Planned:** Electrical Safety for Managers; Switch Gear Station; Work with Assemblies
External support/Opportunities

**Present situation**
- Construction, Installation and start of commissioning
- Frame-work agreements for technical consultants, in total 11 areas. ESH&Q are responsible for:
  - Safety (Radiation, OHS....)
  - Environment
  - Quality
  - System Engineering

**In operation**
- Operation but also installation, and commissioning
  - Radiation Protection (incl. radiation monitoring, radioactive waste)
  - OHS issues
  - Security solutions
  - Information Security
  - Safety Training
  - Environmental monitoring
  - QA, QC