




Safety Training Matrix for Installation Activities on Site

	Name	Role/Title
Owner	Bertil Winér	Occupational Health & Safety Engineer
Reviewer	Lars Aprin Jörgen Mattsson	Safety Training Officer Senior Electrical Safety Engineer
Approver	Peter Jacobsson	Head of ES&H Division

Safety Training Matrix

Trainings provided by ESS-Skanska on site
Training provided by external companies

Training Purpose	HS site Induction	Site orientation training at gate	Safe lifting (slinging/ rigging)	Hot work training	Fall protection and rescue training (with harness)	Electrical Safety Instructions, (ESA 14 -, (EN 50110 certificate)	Electrical Safety Training, (How to apply ESA- 14 on site)	MEWP (Scissor lift, Skylift, Boom lift)	First Aid course including Electrical Injuries	Forklift truck training	Crane operator training for specific crane	Training and medical examination
Estimated cost (SEK)/person	-	-	2000	3200	2200	6000	-	2500	7000/gr.	3600	3200	4000
Access to site	X											
Work on site (general)	X								X *			
Access to site with vehicle/transport		X										
Performing hot work	X			X								
Performing lifting and coupling work	X		X									
Work on site (Accessing energised areas, performing electrical work)	X								X**			
Accessing energised areas, performing electrical works	X					X***	X****		X			
Working on MEWP	X				X			X				
Operating forklift	X									X		
Operating cranes	X		X								X	
Working with epoxy or other allergenic chemical												X
VALIDITY of courses (duration)	-	-	 (Swedish certificate)	 5 years (Nordic certificate)	 (Swedish certificate)	3 years	3years	5 years (ISO 18878 certificate)	3 years	Swedish BYN or TYA validation	Swedish BYN or TYA validation	 Swedish certificate 5 years
	60-90 min	30 min	0.5 day	1 day	0.5 day	2 day	0.5 day	1 day	0.5 day	1 day per course or few hours if validation in-house		

Footnotes

Electrical or electrically-related training

* One per working team

** Compulsory for all in the working team (electrical work)

*** Swedish suppliers and their personnel need to present the ESS Electrical Installation Responsible (ESS-EL), or a person approved by ESS Electrical Installation Responsible (ESS-EL), with an ESA-14 certificate (ESA Work and ESA Principles), before any electrical work starts.

None-Swedish suppliers and their personnel need to present the ESS Electrical Installation Responsible (ESS-EL), or a person approved by ESS Electrical Installation Responsible (ESS-EL), with an electrical safety training certificate, with a content list (in English), equivalent to ESA-14 and which is based on SS-EN 50110, before any electrical works starts.

**** Specific training on how ESA-14 is used at the ESS site will be described in separate ESA-14 training, provided by ESS's ES&H division.

Safety training matrix explanations/clarifications

The safety training matrix shows the mandatory training requirements to be able to work on the ESS site.

The table is arranged according to the ESS contact person or equivalent.

Some legal requirements for trainings are international, meaning that the Swedish (Scandinavian) training is similar to that in other countries. In those cases, the certificates already given can be validated by the site.

The matrix includes examples of forklift and crane operation training.

Training requirements must be discussed with the contact person at ESS before coming to Lund. It may take some months to arrange all training courses necessary before work on site may begin.

In most cases, the training certificate is necessary in order to obtain the work permit connected to the job.

Training courses listed

Health & safety induction is a requirement for anyone working on site. It is held weekly on site, but must be requested several weeks in advance. There is no cost for the training, which is necessary in order to obtain the ID-card (ID06) that gives access to the site.

A shorter introduction is given at the gate for, for example, truck drivers, before entering the site for a short time

Safe lifting is a half-day training course required for everyone involved in lifting operations, including slinging/rigging. The training provides a Swedish certificate valid for the necessary time.

Hot work training is a one-day course in fire safety at workplaces, and includes the use of fire extinguishers. The main focus is on hazards when welding, grinding, or other work with open flame or sparks.

The training is also necessary for Managers issuing hot work permits to employees.

The certificate is valid in Scandinavian countries.

Fall protection and rescue training (with a harness) is required when working at height (>2m) without safety barriers. It is a half-day course that is often held on site.

Electrical Safety training: is needed for everyone working with electricity.

Swedish suppliers and their personnel need to present the ESS Electrical Installation Responsible (ESS-EL), or a person approved by ESS Electrical Installation Responsible (ESS-EL), with an ESA-14 certificate (ESA Work and ESA Principles), before any electrical work starts.

None-Swedish suppliers and their personnel need to present the ESS Electrical Installation Responsible (ESS-EL), or a person approved by ESS Electrical Installation Responsible (ESS-EL), with an electrical safety training certificate, with a content list (in English), equivalent to ESA-14 and which is based on SS-EN 50110, before any electrical works starts.

Specific training on how ESA-14 is used at the ESS site will be described in separate ESA-14 training, provided by ESS's ES&H division.

MEWP (Scissor lift, sky lift, boom lift) training is a one-day course held in the Lund area or on site. It is required for everyone working on such devices, and a requirement for the work permit.

Forklift truck training and crane operator training is as stated above for MEWP. When discussing/ordering training it is necessary to provide information on the size and type of crane, type of fork lift, and MEWP.

First Aid training, including electrical injuries is a half-day course that includes the use of a defibrillator.

In general, the course must be taken by at least one per working team and is compulsory for the entire working team where electrical work is included.

The estimated cost given as an example is for a group, not for each person.

Work with chemicals

When working with epoxy, diisocyanates, or other chemicals, which are allergenic, there is a legal requirement in Sweden to be examined at a health centre. In some cases, a work permit needs to be provided by a Medical Doctor before this kind of work may begin.

Special training in the use of these chemicals is also required.

Training itself takes several hours, however the medical examination must be booked and it is recommended to arrange this several months in advance.

This examination must be carried out in Sweden by a certified Medical Doctor.

DOCUMENT REVISION HISTORY

Revision	Reason for and description of change	Author	Date
1	First issue	Bertil Winér	2017-10-04