

NEIU 2018-19

The course consists of one week each in the respective countries according to the following structure:

Course Week Laying

38-2018	Angelholm, Sweden
46 -2018	Korpilampi, Finland
05-2019	Finse, Norway
21-2019	Knudshoved; Denmark

The course includes group work to be considered at each course week why certain amount of work (preparation) is required in advance.

Interest in participating in the course is the latest 2018-06-08 to each country's management as below. Decision on a new course is taken on June 01 as the notification is preliminary.

Norway: Jernbaneverket, Thorleif Pedersen thorleif.pedersen@banenor.no

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Nordic electricity engineering education



During the autumn and spring 2018-19 the Nordic electricity engineering education is carried out for the 22. time.

The course is aimed primarily for those who work with electrical engineering in a Nordic infrastructure department. Even person in other companies may participate in the course in case of availability.

This course requires

- An engineering degree or equivalent
- Minimum 2 years experience in the field
- The opportunity to participate all four weeks





Most of the course will be held in English but some parts in a Scandinavian language, why good knowledge of mainly English is a prerequisite for participation. The course is designed in collaboration between the Trafikverket (S), Jernbaneverket (N), Trafikverket (Fi) and Banedanmark (DK)

Course aim:

- Highlighting the railways terms in a Nordic and European perspective with a focus on interoperability.
- Give participants a greater understanding of different technical systems and their interactions with each other and with the rolling stock.
- Promote the development of a network of employees within the Nordic railway administrations.

On the opposite side there is a preliminary table of contents.

The course will include a number of excursion and other activities in the afternoons and evenings.

	Sweden	Finland	Norway	Denmark	Total hours for topic
Excursion	6	6	6	6	24
Presentation by infrastructure owner	1	1	1	1	4
Communication systems (basic)	4				4
El.system (basic)	3				3
Signal system (basic . Relay-interlocking)	8				8
Track systems (basic)	8				8
Electrical Safety		2			2
International (TSI energy)				3	3
Catenary systems		4			4
Power supply 25KV		2			2
Power supply 15KV	2				2
Maintainace strategy /smart maintenance		3			3
International (TSI signaling)			4		4
Track systems			4		4
GSMR, ERTMS / ETCS / telecommunication			10		10
CSM / approval process interlocking and signal systems			5		5
Electronic interlocking		4			4
Traction systems		7			7
High speed lines		3			3
EMC				6	6
Earthing				4	4
How to build a brand new line				4	4
Low voltage & point heating				4	4
Energy savings				4	4
Metro-lines			2		2
					
SUMMARY:	32	32	32	32	128

