

International CCS+ Education Programme

Initiated by



Supported by



Reason and goal

Digitalization and European focus necessary

- In Europe, the rail industry faces challenges with workforce diversity and employability amid rapid digitalization. Without intervention, it risks falling behind in the digital era and missing out on new opportunities. Additionally, there's a need to shift from national to European perspectives to enhance attractiveness and competitiveness, facilitating seamless border crossings.

Harmonized education and training on all levels

- The International Command, Control and Signaling + (CCS+) Education programme aims to unify rail sector education, making it more appealing, reducing training time, and fostering internationalization. This supports European initiatives like ERTMS (European Rail Traffic Management System) and the Single European Railway Area under the Green Deal.



Target groups

The International CCS+ Education Programme focus on three target groups
With for each target group a specific programme:

- University students (master)
- Rail Newcomers/Young professionals (1- 4 years experience)
- High(er) Management (board of directors' railway organizations, Ministry, EU)
- General interested in digital rail (all levels of experience)



Target groups

Target groups

- Students at Universities / Universities of Applied Science
- Rail Newcomers / Young professionals
- Management / Ministries / EU
- General interest

NL Trainees



Programme part

Masterprogramm

CCS+ Summer School

Executive Master Classes

Expert Meetings

Internship Exchange



University students

International master

- Full (accredited) master
- Broad scope within the topic 'digitalization in rail'
- Join forces of universities in different countries instead of not be able to offer a full programme as a single university
- Three countries (key universities) needed for financial support from Erasmus+ funds
- First round to gauge interest
- Basis for an international career in the (digital) rail industry

- Initiative by rail industry parties, elaboration and implementation by universities



University students

International master

- The project aims to create an Erasmus Mundus Joint Master program uniting European universities for comprehensive rail-related education. A curriculum board of academic and industry experts will guide content to meet technological and internationalization challenges, incorporating IT, AI, and cross-border knowledge alongside existing rail-related subjects.



Rail Newcomers/Young professionals

Summer School

- Two-week all-inclusive programme
- At least in two countries
- Lectures from university professors and experts from the rail industry
- Technical visits
- Social programme
- Networking



Young professionals



Summer School 2023

- 31 participants from Sweden, Denmark, Germany, The Netherlands, Czech Republic, Slovenia and Hungary
- One week in The Netherlands and one week in Germany at two locations



High(er) Management

Executive masterclass

- Compact afternoon – evening – morning event
- Topics presented by high level experts (i.a. professors from universities)
- Exchange lessons learned / best practices
- Networking

Pending
to elaborate



General interested in digital rail

Expert Meetings

- Recurring meetings
- Online or in present
- Combined with guest speakers or excursions
- Exchange lessons learned / best practices / current issues
- Networking



Contact

Sven Marburg – DB InfraGO AG

- CCS+ Education Programme / University Contacts
- E-Mail: Sven.Marburg@Deutschebahn.com
- Phone: +49 69 265 30567

André van Es – ERTMS

- Program Interface Manager
- E-Mail: Andre.vanEs@ertms.nl
- Phone: +31 6 3918 7141

www.ccs-education.com

