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MARINO SANTOPINTO / IRYO



2020:

1. Administrador de Infraestructuras Ferroviarias (Adif) awards ILSA (iryo) package B after the liberalization process, being the only Spanish private operator.
2. Award of the purchase of 20 trains to the Hitachi - Bombardier consortium (now Alstom group).
3. Start-up of the company. Strategy and product design.

2021:

4. September: Arrival of the first ETR 1000 train for its homologation process in Spain.
5. November: Launch of the commercial brand.

2022:

6. January: Start of training of the first class of train drivers.
7. September: Presentation of commercial proposal.
8. November: Start of operations Madrid - Barcelona.
9. December: Launch Madrid - Valencia.

2023:

10. Launch Madrid - Seville/Malaga.
11. Full deployment of fleet and frequencies.

Collaboration with:



IRSC 2022

INTERNATIONAL RAILWAY SAFETY COUNCIL

SEVILLA, OCTOBER 16-21, 2022



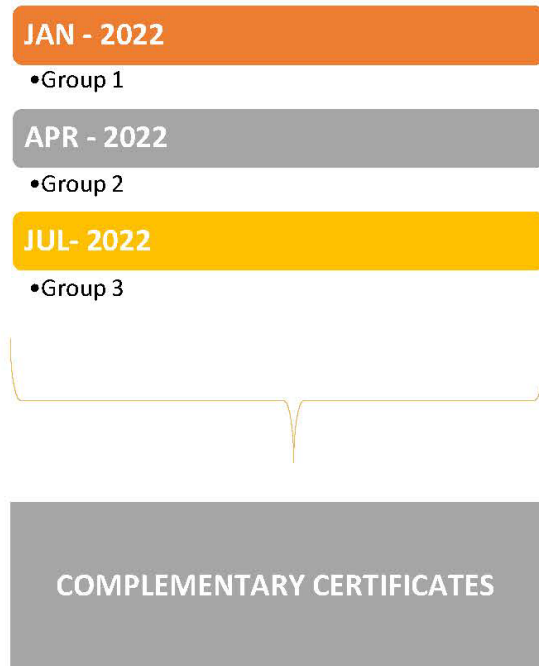
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DRIVERS' TRAINING CERTIFICATION PROCESS IN IRYO

DRIVERS

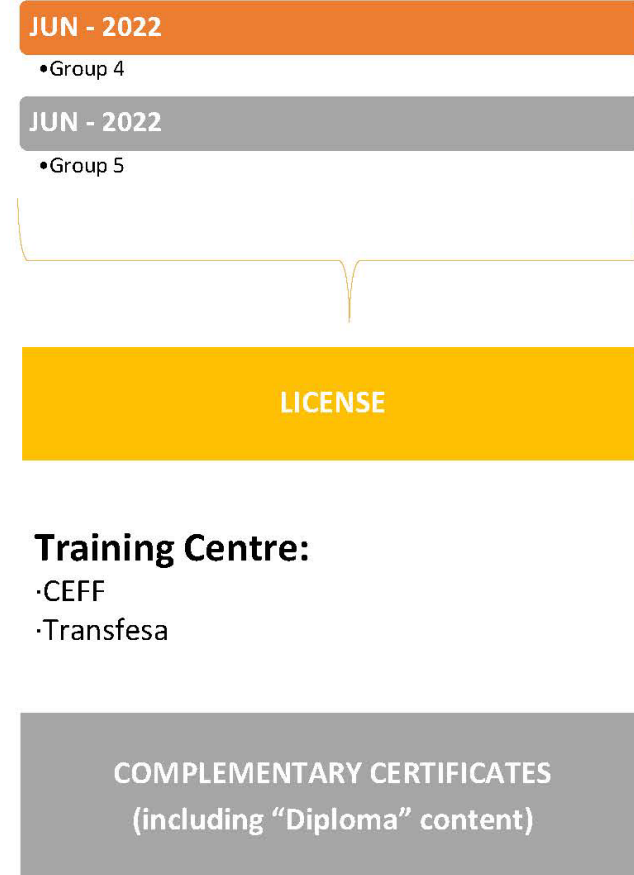
(License + "Diploma" -license complement)



Training Centre:

- Captrain (Rolling stock + On board safety systems)
- Renfe (infrastructure)
- Trenitalia (Rolling Stock)

CANDIDATES TO DRIVERS



Training Centre:

- CEFF
- Transfesa

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- CEFF
- Transfesa

Group 1 **Group 2** **Group 3**
 July - 2022 Sept. - 2022 Nov. - 2022

Group 4 **Group 5**
 Mar.- 2022 Mar. - 2022

The **driver selection process** has been a major challenge in getting a suitable pool of drivers. The main elements that summarize the process are as follows:

Drivers hired in 5 different groups:

- 70% **drivers** with license and "diploma" hired in 3 groups: complementary certificate training.
- 30% **candidates to drivers**: license training + complementary certificates
- Total duration of the process: approx. 1 year

The training content of the complementary certificates includes:

- Rolling Stock (s109)
- Infrastructure (Eje 12, 13 y 14)
- On-board equipment (ETCS, LZB y Asfa D.)
- SGS / Rule book
- Module in Human Factors: Runovers, emergencies and catastrophes, non-technical skills,
- Management and prevention of stress, prevention of addictions, ...

Challenges faced:

- Demanding deadlines
- Access to rolling stock in the authorization process
- Access to infrastructure training
- Training carried out abroad

Found solutions y Key Factors:

- Work carried out with several Training Centres: Captrain, Trenitalia, CEFF, Transfesa, Renfe
- Collaboration of the sector as a whole: AESF, ADIF, Training Centres, Manufacturer (Alstom-Hitachi), specialized contractors (Human Factors — Psiconnea — ESM).
- Complement to drivers training in the commercial simulation phase with trains without passengers



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