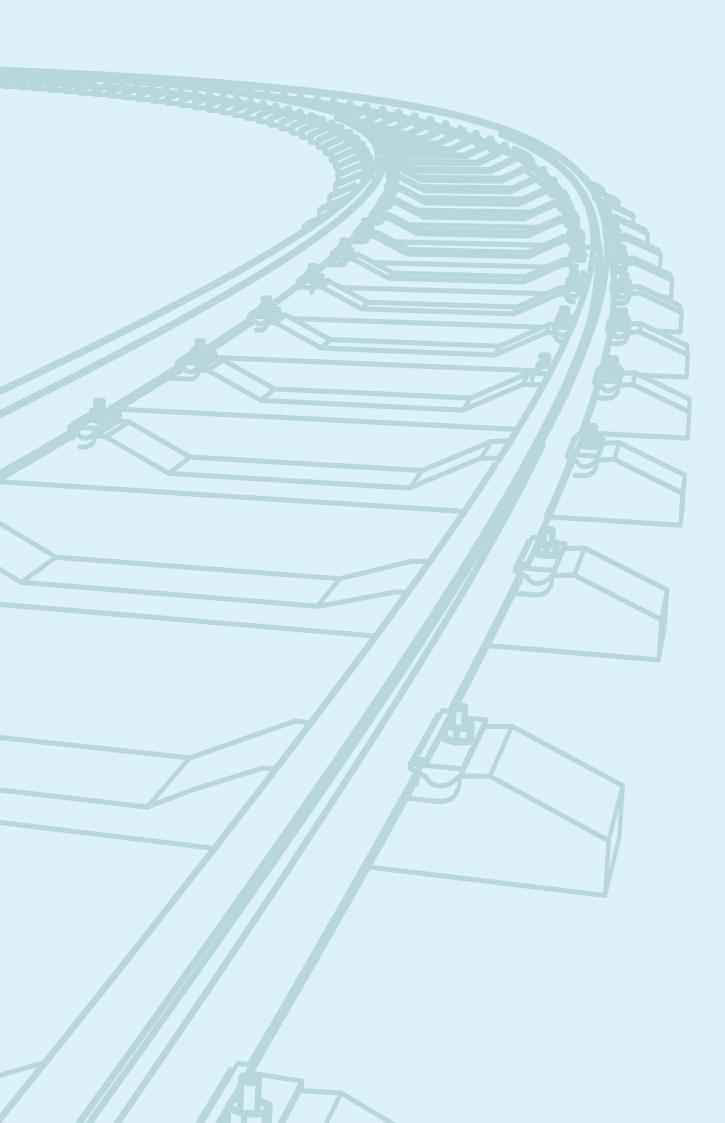


STAFFER: SKILLS TRAINING ALLIANCE FOR THE FUTURE OF EUROPEAN RAIL

www.railstaffer.eu



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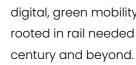


Europe – and its railways – is at a critical junction. Facing both a COVID-19 recovery and the ongoing threat of climate change, all industries are searching for the best means to contribute to efforts geared at enabling the European Union to remain innovative, competitive and increasingly sustainable. Europe's rail industry – ranging from its operators and suppliers to infrastructure managers and railway undertakings - are doing their part to ensure a prosperous European future. Europe's railways represent the least carbon intensive mode of mass transit, contributing only 0,4% of the transportation sector's considerable greenhouse gas emission. This attribute, combined with the fact that rail has managed to be the only mobility

service to become more energy efficient while increasing capacities, has led the European Commission to seek to inspire a doubling of passenger and freight rail traffic by 2030 and 2050, respectively.

Such a behavioural shift will transform how citizens across the continent travel within their countries and between Member States, as well as conduct their business and source their favourite products. However, today we are not quite ready to host those volumes with the desired ease and efficiency. This initiative will require completing the widereaching Trans European Network - Transport and the requisite infrastructure, signalling, rolling stock and equipment that is needed for it to properly function. Most importantly, it will also require skilled rail professionals to design, implement and operate optimally. At the moment, rail is experiencing an aging workforce that is approaching a well-deserved retirement while attempting to deploy rapidly evolving digital technologies. Educational and training pathways are essential to preparing students, transitioning employees and current rail professionals for fulfilling and impactful careers in our sector for the coming decades. Educational offers should be aligned with emerging trends we can observe across both society and the private sector.

The Skill Training Alliance For the Future European Rail system (STAFFER) is our sector's Erasmus+ Blueprint for Sectoral Cooperation on Skills. It brings together 32 partners representing academics, trainers, authorities, operators and suppliers to assess Europe's current academic and vocational training programmes, craft reforms, help implement their recommendations and forecast needs beyond the project's lifespan to help make our sector even more attractive to current and future employees. Together, this consortium is committed to creating robust pathways across the EU for those that seek to help us craft the



Thank you for your interest in rail, its future and our efforts to help Europeans achieve excellence in this important sector. In this brochure, we invite you to learn more about our consortium, its structure and our ambitions. We look forward to working with you on improving skills programmes and creating career pathways.

Best regards,





digital, green mobility paradigm rooted in rail needed in the 21st

Angele Di Febras

Angela Di Febbraro

About **STAFFER**

CONTEXT

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In 2019, a European Commission Study on the competitiveness of the Rail Supply Industry identified the "promotion of the development of skills and safeguard of access to skilled labour" as one of the main action fields for ensuring Europe's rail supply industry's leadership. According to this study, "the supply of technical engineers may become a bottleneck in maintaining the competitive position of the EU rail supply industry". It even states that "combined with a decreasing workforce due to ageing, perception of an unattractive sector, and changing skill requirements due to the digital transformation, it

is expected that this skills shortage could increase in the near future". These mounting challenges necessitate action without further delay. Later that year, the Final Report of the EC Expert Group on the Competitiveness of the EU Rail Supply Industry confirmed that "in view of the ageing population, a significant cohort of employees is expected to retire within the coming years. At the same time, transformation related to digital and high-tech technologies creates mismatches between available and demanded skills. Already now, enterprises in many Member States are reporting difficulties to find railway engineers".

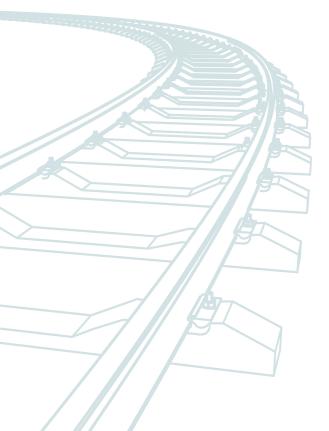
What is STAFFER?

STAFFER is a four-year, European Commissionfunded Blueprint project focused on the topic of skills in the rail sector. A large share of the sector's workforce is expected to retire in the next 10 years as it experiences both a severe skill shortage and a need for re/upskilling. STAFFER will deliver human capital solutions for all levels of the rail value chain, gaining the holistic view of the sector as a system of systems, unifying the European rail world.

By the end of 2019, following these discussions held within the EC Expert Group on the Competitiveness of the EU Rail Supply **Industry**, it was clear that these weaknesses must be addressed immediately. In response, the Commission shortlisted the rail industry as 1 of 6 sectors eligible for the creation of an Erasmus+ **Blueprint for Sectoral Cooperation on Skills.**

Coordinated by the University of Genoa, our alliance STAFFER officially started on 1 November 2020 and will last for 4 years. To ensure that rail is best prepared to meet the transport needs of tomorrow, the consortium is composed of representative key businesses, trade unions, education and vocational training stakeholders and public authorities. Its objective is to help identify the main existing skill gaps and assess the future needs in our industry, Vocational & Education Training (VET) institutions and technical universities to propose adaptations to curricula, training and educational programmes so as to address new technological

developments and trends.



Current rail training initiatives in Europe



Rail Technology and Mobility St. Poelten University of Applied Sciences (FHSTP) – Academy European qualifications framework: 6

Rail Technology and Management of System Railways St. Poelten University of Applied Sciences

(FHSTP) - Academy European qualifications framework: 7

Academic Trainer in Railway Services

St. Poelten University of Applied Sciences (FHSTP) - Academy European qualifications framework: 5

Electrical Engineering Hohere Technische Lehranstalt Mödling

(HTL Mödling) – School European qualifications framework: 5

CZECHIA

Intelligent Transport Systems Czech Technical University in Prague (CTU) -Academy European qualifications framework: 6

Smart Cities Czech Technical University in Prague (CTU) – Academy European qualifications framework: 7

Intelligent Transport Systems Czech Technical University in Prague (CTU) -Academy European qualifications framework: 7

Transportation Systems and Technology Czech Technical University in Prague (CTU) -Academy European qualifications framework: 7

Technology in Transportation and Telecommunications Czech Technical University in Prague (CTU) - Academy European qualifications framework: 7

Logistics and Transport Processes Control Czech Technical University in Prague (CTU) -Academy

European qualifications framework: 7

Technology in Transportation and Telecommunications Czech Technical University

in Prague (CTU) - Academy European qualifications framework: 6 Civil Engineering - Structural and Transportation Engineering Czech Technical University in Prague (CTU) - Academy European gualifications framework: 6

Civil Engineering - Building Structures

Czech Technical University in Prague (CTU) – Academy European qualifications framework: 6

Civil Engineering - Building Structures

Czech Technical University in Prague (CTU) -Academy European qualifications framework: 7

Civil Engineering - Environmental Engineering

Czech Technical University in Prague (CTU) -Academy European qualifications framework: 7

Civil Engineering - Structural and Transportation Engineering Czech Technical University in Prague (CTU) -Academy

European qualifications framework: 6

Rail training initiatives across Europe

Civil Engineering - Structural and Transportation Engineering Czech Technical University in Prague (CTU) -Academy

European qualifications framework: 7

Building Engineering - Construction of Buildings and Engineering Structures Czech Technical University in Prague (CTU) -Academy

European qualifications framework: 6

Mechanical Engineering - Transportation, Aerospace and Handling Technology Czech Technical University in Prague (CTU) -Academy

European qualifications framework: 7

Rail Vehicles University of Pardubice, Faculty of Transport Engineering (UPA) - Academy European qualifications framework: 7



FRANCE

Mastere Specialise® (Advanced Master Program) - Construction Project Management - Specialization in "Railway and Urban Transport and New Mobilities" Centre des Etudes Supérieures Industrielles (CESI) - School European gualifications framework: 7

Construction and Civil Works Engineer training program with a specialization in Railway Works Management on site Centre des Etudes Supérieures Industrielles (CESI) – School European qualifications framework: 7

Maintenance and Data Bachelor Centre des Etudes Supérieures Industrielles (CESI) – School European qualifications framework: 6

Engineering vocational training through continuing education: Maintenance & Industrial Engineering Specialty Centre des Etudes Supérieures Industrielles (CESI) – School European qualifications framework: 7

Professional baccalaureate - Maintenance of Connected Production Systems Centre de Formation Apprenti SNCF (CFA SNCF) - School

European qualifications framework: 4

Advanced Technician Certificate for System maintenance - Option Production System Centre de Formation Apprenti SNCF (CFA SNCF) - School European qualifications framework: 5

Professional certification: Maintenance technician Centre de Formation Apprenti SNCF (CFA SNCF) - School European qualifications framework: 4

Professional Baccalaureate Centre de Formation Apprenti SNCF

(CFA SNCF) - School European qualifications framework: 4 Additional certification for reception in transports Centre de Formation Apprenti SNCF (CFA SNCF) - School European qualifications framework: 4

Professional certification - Mediation

Information Services / Centre de Formation Apprenti SNCF (CFA SNCF) - School European qualifications framework: 3

Professional certificate Technical -

Transport safety technician Centre de Formation Apprenti SNCF (CFA SNCF) - School European qualifications framework: 4

Ingénieur des TPE, approfondissement transport

Ecole Nationale des Travaux Publics de l'Etat (ENTPE) - School European qualifications framework: 7

Master Transports Urbains et Régionaux de Personnes

Ecole Nationale des Travaux Publics de l'Etat (ENTPE) - School European qualifications framework: 7

Railway engineer Degree

École Supérieure des Techniques Aéronautiques et de Construction Automobile (ESTACA) – School European qualifications framework: 7

Civil engineer for railway systems

(apprenticeship) École nationale supérieure des Mines-Télécom de Lille-Douai (IMT Lille Douai) - School

Rail traffic operator

Société Nationale des Chemins de Fer (SNCF) -Company European qualifications framework: 4

Operational manager of rail traffic

Société Nationale des Chemins de Fer (SNCF) -Company European qualifications framework: 5

Railway track worker

Société Nationale des Chemins de Fer (SNCF) -Company European qualifications framework: 4

Catenary Worker

Société Nationale des Chemins de Fer (SNCF) -Company European qualifications framework: 4

Railway electric signalling worker

Société Nationale des Chemins de Fer (SNCF) -Company European qualifications framework: 4

BIM

Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - Academy European qualifications framework: 6

Railways Project Management (IGTC1001; RUDIPRJODI; IGPSNEXT; IGTC1061; IGTC1062;IGTC1079;IGTC1080; IGTC1081; IGTC5E00; IGTC5E10; IGTC1230; IGTC1231; IGTP1283; IGTP1284; IGTP1285; IGTP1286; IGTP1287; IGTP1288; IGTP1292; IGTP1293; IGTP1210; IGTP1230; IGTP12 Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – Academy European qualifications framework: 6

Rai Operation Processes (IGSC1951; IGEC1130; IGEC1550; IGEP1160; IGEP1390; IGEP1430; IGEP1440; IGEP1500; IGPRZEPSEL) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – Academy European qualifications framework: 6

Power Supply Design (IGTECAT10; IGTECAT11; IGTECAT20; IGTECAT21; IGTECAT22; IGTECAT30; IGTECAT31; IGTECAT32; IGTECAT34; IGTECAT40; IGTECAT41; IGTECAT42; IGTECAT43; IGTECAT50; IGTECAT60; IGTECAT61; IGTECAT62; IGTECAT64; IGTECAT65)

Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - School

European qualifications framework: 6

Power Supply Design (IGTECAT10; IGTECAT11; IGTECAT20; IGTECAT21; IGTECAT22; IGTECAT30; IGTECAT31; IGTECAT32; IGTECAT34; IGTECAT40; IGTECAT41; IGTECAT42; IGTECAT43; IGTECAT50; IGTECAT60; IGTECAT61; IGTECAT62; IGTECAT64; IGTECAT65)

Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - School

European qualifications framework: 6

Telecommunications (IGEB1040; IGEC1040; IGEC1071; IGEP1250; IGEP2210; IGEP2219; IGEP2665; IGSITERE0; IGSITERE1; IGTLDAO1; IGTLDAO2) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – Academy European qualifications framework: 6

Signalling Engineering (IGEC1001; IGEC1100; IGEC1500; IGEP1015; IGEP1121; IGEP1122; IGEP1140; IGEP1220; IGEP1502) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – Academy European gualifications framework: 5

Civil Engineering - Bridges & Tunnels (IGCC3034; IGCP1025; IGCP1044; IGCP1046; IGCP1050; IGCP1090; IGCP1091; IGCP1092; IGCP1110; IGCP1120, IGCP1125; IGCP1161; IGCP1167; IGCP1341; IGCP1342; IGCP1390; IGCP2412; IGEP1044; IGPIOAD; IGPIOAP) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - Academy European qualifications framework: 6



Track Design (IGCC1010; IGCC2061; IGCC2062; IGCC2063; IGCC2064; IGCC3010; IGCC3011; IGCC3015; IGCC3016; IGCC3017; IGCC3018; IGCC4000; IGCC4010; IGCP1285; IGCP2000; IGCP2010; IGCP2110; IGCP2360; IGCP2365) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - Academy

European qualifications framework: 6

Safety & Security (IGSC1930; IGSC1943; IGSC1943DI) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) - Academy

European qualifications framework: 6

Railway Systems (IGASSMAN1; IGMB1040; IGMB1040BL; IGMB1050) Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – Academy European qualifications framework: 6

Power supply system engineering: IGTECAT10 to IGTECAT12; IGTECAT20 to IGTECAT22; IGTECAT30 to IGTECAT34; IGTECAT40 to IGTECAT43; IGTECAT50; IGTECAT60 to IGTECAT65 Université de l'Ingénierie (subsidiary of Réseau SNCF) (UDI) – University

European qualifications framework: 6

GERMANY

Eisenbahner im Betriebsdienst, Fachrichtung Fahrweg

BSZ Schkeuditz (BSZ Schkeuditz) – School European qualifications framework: 4

Functional training for train drivers Deutsche Bahn AG (DB AG) - Company

Employee in the maintenance of locomotives Deutsche Bahn Training (DB Training) -Company European qualifications framework: 3

Train dispatcher training Deutsche Bahn Training (DB Training) – Company European qualifications framework: 4

Master European Railway Systems – Europäische Bahnsysteme University of Applied Sciences Erfurt (FH Erfurt) – Academy European qualifications framework: 7

Bachelor Wing Eisenbahnwesen - Industrial Engineering and Mgmt. for Railway Systems University of Applied Sciences Erfurt (FH Erfurt) - Academy European qualifications framework: 6

Bachelor Wing Transport and Logistic -Industrial Engineering and Mgmt. for transport and logistics University of Applied Sciences Erfurt (FH Erfurt) - Academy European qualifications framework: 6

Master Transport and Logistic - Industrial Engineering and Mgmt. for transport and logistics

University of Applied Sciences Erfurt (FH Erfurt) - Academy European qualifications framework: 7

Traffic technicans

Gotha State Technical College for Construction, Economics and Transport (FS Gotha) - School European qualifications framework: 6

Certificate Programme "Railway Technology"

Munich University of Applied Sciences (HM -MUAS) - Academy European qualifications framework: 7

Bahnwege seminare Rhomberg Sersa Vossloh GmbH (Rhomberg Sersa Vossloh) - Company

Transport Engineering

Dresden University of Technology (TU Dresden)	
- Academy	

European qualifications framework: 7

Master of Railway System Engineering

Dresden University of Technology (TU Dresden) - Academy European qualifications framework: 7

Master of Electrical Transportation Systems

Dresden University of Technology (TU Dresden) - Academy European qualifications framework: 7

Mechanical Engineering (Diplom), Automotive and Rolling Stock Engineering Dresden University of Technology (TU Dresden) - Academy

European qualifications framework: 7

Betriebsregelwerk

Verband Deutscher Verkehrsunternehmen Akademie GmbH (VDV Akademie) - Academy



Railway Infrastructure/Civil Engineering Aristotle University of Thessaloniki (AUTh) - Academy

European qualifications framework: 7

Fachkongress Eisenbahnbetriebsleitung Verband Deutscher Verkehrsunternehmen Akademie GmbH (VDV Akademie) - Academy

11. Internationaler BME/VDV-

Eisenbahnkongress Verband Deutscher Verkehrsunternehmen Akademie GmbH (VDV Akademie) - Academy

Railway brake systems and brake calculation Innovationszentrum für Bahntechnik und Mobilität (IZBTM) - School European qualifications framework: 7

Modern railway drivetrains with hydrogen and fuel cells Innovationszentrum für Bahntechnik und Mobilität (IZBTM) – School European gualifications framework: 7





Harmonised Complementary Certificate - Type A For.Fer (For.Fer) - School European qualifications framework: 4

Train Driving License For.Fer (For.Fer) - School European qualifications framework: 4

Harmonised Complementary Certificate
- Type B
For.Fer (For.Fer) - School
European qualifications framework: 4

Conductor For.Fer (For.Fer) - School European qualifications framework: 4

Train Preparer For.Fer (For.Fer) - School European qualifications framework: 4

Vehicle Maintainer For.Fer (For.Fer) - School European qualifications framework: 4

Infrastructure Maintainer For.Fer (For.Fer) - School European qualifications framework: 4

Global Induction - Introduction to the Company HITACHI RAIL (HITACHI RAIL) - Company Safety engineering for Transport, Logistics and Production University of Genoa (UniGE) - Academy European qualifications framework: 7

Master universitario di II livello in Ingegneria delle Infrastrutture e dei Sistemi Ferroviari University of Rome "La Sapienza" (Uniroma 1) -Academy European qualifications framework: 8

Railway courses

Agenzia Nazionale per la Sicurezza delle Ferrovie e delle Infrastrutture Stradali ed Autostradali (ANSFISA) – Formation center European qualifications framework: 4

Trasporto ferroviario – ITS TEC MOS

Istituto Tecnico Superiore (ITS) - Formation center European qualifications framework: 5

Railway Maintenance Istituto Tecnico Superiore (ITS) - Formation center European qualifications framework: 5

Degree (Laurea Magistrale) in Mechanical Engineering - Curriculum in "Railway Vehicles" University of Firenze (UniFI) - University European qualifications framework: 7

UNITED KINGDOM

Rail Transport Aston University (Aston University) - Academy

Fundamentals of Accident Investigation Cranfield University (Cranfield University) - Academy

European qualifications framework: 7

Applied Rail Accident Investigation Cranfield University (Cranfield University)

- Academy European qualifications framework: 7





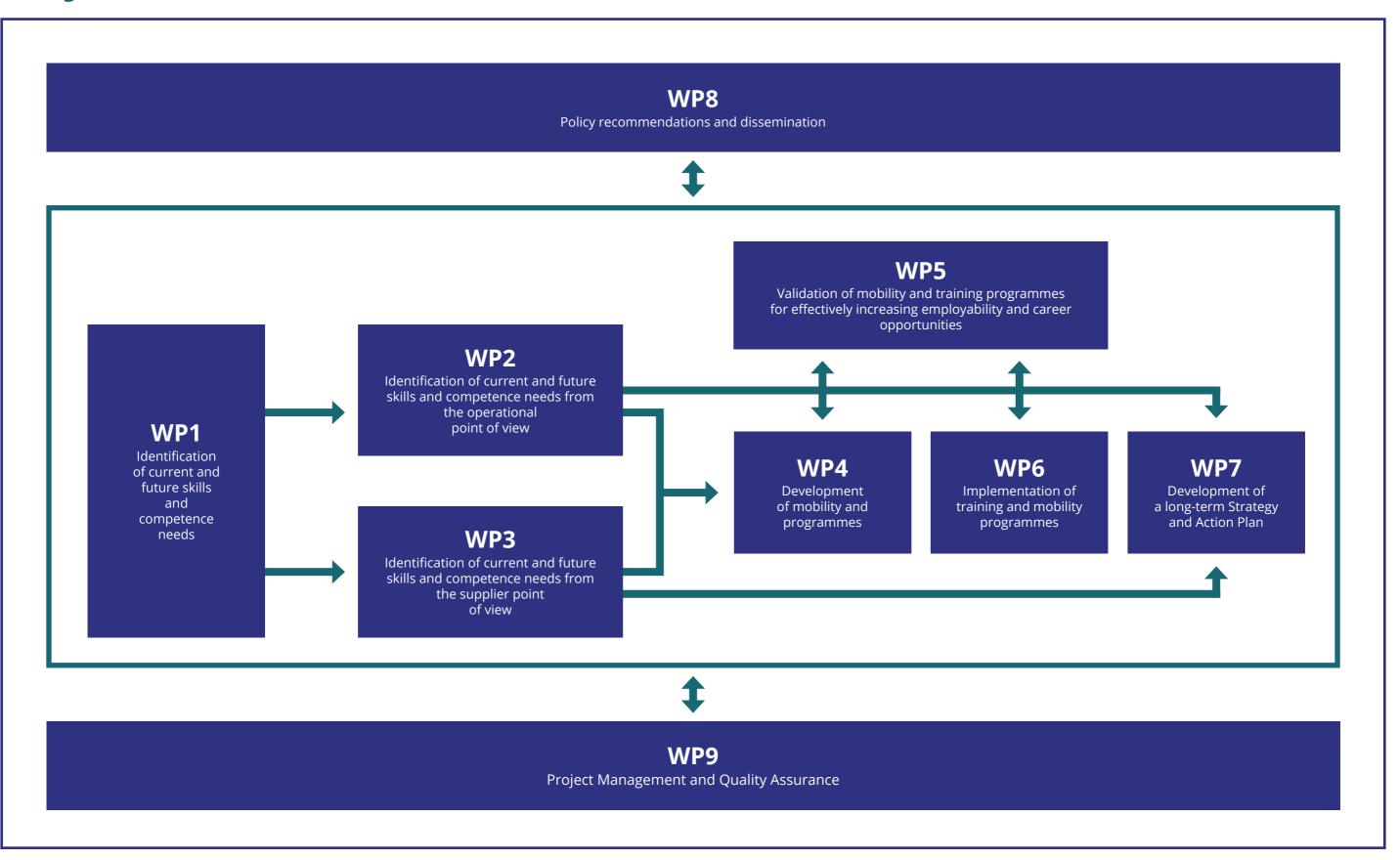
Railway Transport and Traffic University of Belgrade , Faculty of Transport and Traffic Engineering (UB-FTTE) - Academy European qualifications framework: 6

Railway Transport and Traffic University of Belgrade , Faculty of Transport and Traffic Engineering (UB-FTTE) - Academy European qualifications framework: 7 PhD (Science) – Traffic Engineering University of Belgrade , Faculty of Transport and Traffic Engineering (UB-FTTE) – Academy European qualifications framework: 8

Safety and Accident Investigation MSc Programme Cranfield University (Cranfield University) - Academy

European qualifications framework: 7

Project Structure



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The Work Packages

Work Package 1 Identifying skills needs

Work Package (WP) I has the difficult task of identifying the current and future skills and competence needs throughout the rail sector. It serves as a methodological umbrella for the skills identification performed by WPs 2 and 3, where the specific views of operators/infrastructure managers and suppliers will be further developed.

The focus is therefore on providing an overview and an introduction of the competence model featuring

CO-LEADERS:



the four categories of social,

technological, domain know-

how, and personal competences.

The analysis of skills and jobs will

focus on technical skills that go

hand in hand with the technical

innovations and adaptions in the

rail industry on both the suppliers'

and operators' sides. The work

will be based on the analysis of

existing studies and more indepth interviews to help assess

the skill maturity level of the current workforce and identify

skill gaps.



Alongside the groundwork of Work Package (WP) 1, which covers the whole rail sector, WP 2 will zoom in on the qualification requirements of the railway operators and infrastructure managers.

It will notably look at the definition of the future vision of rail considering the trends identified and their specific impact on railway operators and

CO-LEADERS:

infrastructure managers. It will also focus on the identification of skill needs and occupational profiles from the point of view of operators and infrastructure managers.

WPs 2 and 3 (focusing on the same issue but for suppliers) will work closely under the common framework provided by Work Package 1 with the aim of identifying common skill gaps.

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wmp consult



Work Package 3 Pinpointing supplier skills

What are the current and future skills and competence needs from the suppliers' point of view? That is the question Work Package (WP) 3 tries to tackle. Based on the groundwork of WP 1 - and alongside the work of WP 2 – the goal is to define a future vision of the rail

sector from the perspective of suppliers.

MAFEX

The analysis of the needs of the rail supplier will take into account the current trends of the rail sector and their specific impact on rail industry suppliers.

CO-LEADERS:



Work Package 4 **Developing trainings**

Following on the work carried out in Work Packages (WPs) 1, 2 and 3, this group is setting its sights on creating ambitious training programmes for students and rail professionals hoping to make their mark on Europe's mobility paradigm. Together, they are mapping the main education providers' - both Vocation, Education and Training (VET) and higher education - existing programmes and courses across the EU that provide final certifications and/or diplomas in rail. WP 4 is also identifying and evaluating common Qualification Standards (QS), assessing existing programmes based on the abovementioned WPs' analysis of

needed skills and designing new or complimentary curricula to give students and professionals the skills they need to push rail to the next level.

This group is creating the courses that will allow rail to thrive in the years to come. Their work will focus on providing pathways that will provide students the capacities needed to manufacture cutting-edge rail products, operate and maintain them and be equipped to utilise the ICT skills required for the digitalisation of our sector - ranging from the Internet of Things to (big) data analytics and cybersecurity.















Work Package 5 Increasing employability

Are Europe's rail training programmes making its pupils more employable? Work Package (WP) 5 was established to transfer and then validate the new and updated mobility and training paths, programmes and curricula to see if they are helping students and young professionals seize career opportunities in rail!

Following a similar approach to their counterparts in other STAFFER WPs, these partners are utilising a methodological umbrella considered in WP 5 as it assesses employability and opportunities as it pertains to operators, infrastructure managers and rail suppliers. Their results will be corroborated by a feedback mechanism established to better attune the mobility and training programmes crafted by STAFFER.







Work Package 7 **Thinking ahead**

Addressing Europe's rail skill mismatch is no easy task, but STAFFER is looking to develop a strategy that allows future Europeans to access careers in rail and the sustainable mobility solutions they create. STAFFER partners in Work Package (WP) 7 are working to devise a long-term strategy and action plan that will make sure that European rail continues to be a world leader in transport technologies, provides quality jobs and allows citizens to safely and responsibly transport themselves and goods.

Under the STAFFER umbrella, WP 7 partners are collaborating closely with their colleagues in WPs 4 and 6 - concerned with trainings development and implementation, respectively - to extrapolate a means of allowing the next generations to continue to benefit from STAFFER for years after its 4-year mandate. These partners are reflecting on follow-up actions that will extend STAFFER's impact beyond its budget.

LEADER:



Work Package 6 Implementing training programmes

Let's get to work! Work Package (WP) 6 is where the rolling stock hits the track – this group is tasked with actually implementing the training programmes developed in WP 4. Partners partaking in these activities will first establish a methodology and a set of key performance indicators to best continuously monitor the implemented programmes and their achievements.

From there, they will create a framework, or scheme, to facilitate transnational mobility students, apprentices, trainees or other staff groups in the rail industry. Lastly, the WP will set up Vocational Education and Training (VET) at the lower and higher European Qualification Framework (EQF) levels as pilot cases to design new courses, or adapt existing ones, to introduce necessary knowledge and work-based activities needed to enhance skills in rail.



Work Package 8 Increasing employability

How can STAFFER both disseminate the project's results among all rail stakeholders and relevant educational institutions in Europe, and define skillsrelated policy recommendations addressed to regional, national and European decision makers?

Work Package (WP) 8 is committed to three different objectives:

> Developing a communication strategy and establishing a

dissemination plan to facilitate wide-spread information and knowledge transfer within the consortium during and beyond the project's lifespan

- > Communicating STAFFER's successes to relevant stakeholders using social media, events and more
- > Reaching out to regional, national and European decision makers to share STAFFER results on the best way of building skills in rail!

CO-LEADERS:



CO-LEADERS:







Work Package 9 Delivering quality

STAFFER is committed to pushing skills in rail forward, Work Package (WP) 9 keeps us on task! Tasked with ensuring the consortium moves as one unit and delivers high-quality results, this group:

- Plans and organises STAFFER's overall actions
- Guarantees that it reaches its objectives on time and on budget
- Brings out the best from the consortium by pushing for quality deliverables and results



LEADER:



Project Partners

ALST <mark>O</mark> M	CER The Voice of Gumpers Railways	CESI ÉCOLE D'INGÉNIEURS	L FL	CTU المعادمة المعادمة الم	DB
ESTACA COLE D'INCENTEURS			/fh/// st.pollers	FORFER VERENCERK.	HITACHI Inspire the Next
htla	ödling	and gave integrations of a	le c nam	ŐВВ	ProRail
SAPIENZA UNIVERSITÀ DI ROMA	ARISTOTLE UNIVERSITY OF THESSALONKI	SGH Varsam School of Economics	SIEMENS	SNCF	TECHNISCHE UNIVERSITÄT DRESDEN
	Università di Genova	wmp consult			



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In RAIL STAFFER

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