

D2.2

Model for Skills Intelligence Skills Mapping

Occupations in the Charging Plaza's for E-bikes workforce

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Occupation:	<u>Electrical engineer</u>	EQF Level:	6	ULOS (Units of Learning Outcomes)		
Tasks and responsibilities:		Level of competence:	Knowledge	Skills	Attitude	
(a) The electrical engineer advises on and designs electrical energy systems for charging infrastructure and power distribution		4,5	The electrical engineer can explain the principles of electrical power generation, distribution and energy storage used in charging infrastructure. The electrical engineer can advise on electrical energy systems for charging stations and charging hubs for e-bikes and light electric vehicles	The electrical engineer can design electrical power distribution systems and energy supply solutions for charging infrastructure.	The electrical engineer promotes reliable and energy-efficient charging infrastructure for electric mobility.	
(b) The electrical engineer supervises, controls and monitors the operation of electrical energy systems and charging infrastructure.		2, 3	The electrical engineer can describe the operation of electrical distribution systems and charging infrastructure.	The electrical engineer can monitor the operation of charging systems and electrical distribution networks. The electrical engineer can supervise and manage the operation of charging infrastructure and related electrical systems.	The electrical engineer ensures safe and reliable operation of electrical systems used in charging infrastructure.	
(c) The electrical engineer advises on and designs electrical systems for charging devices, motors and related electrical equipment		4,5	The electrical engineer can explain the operating principles of electric motors, charging devices and power electronics used in e-mobility systems. The electrical engineer can advise on electrical systems used in e-bike charging stations and charging hubs.	The electrical engineer can design electrical systems for charging equipment, motors and related electrical devices.	The electrical engineer promotes efficient and reliable operation of electrical equipment used in charging infrastructure.	
(d) The electrical engineer specifies electrical installations for charging infrastructure in buildings and public spaces		3	The electrical engineer can specify ³ electrical installation and application in industrial and other buildings and objects	The electrical engineer can specify electrical installations for e-bike charging stations in buildings, public spaces and mobility hubs. The electrical engineer can coordinate the integration of charging infrastructure within electrical building systems.	The electrical engineer ensures compliance with electrical safety standards and installation regulations.	
(e) The electrical engineer establishes control standards and procedures to monitor performance and safety of electrical generating and distribution systems, motors, and equipment.		4	The electrical engineer can explain monitoring techniques and safety requirements for electrical systems and charging infrastructure. The electrical engineer can establish monitoring procedures and safety standards for charging stations and electrical distribution systems.	The electrical engineer can define performance indicators to monitor reliability and safety of charging infrastructure.	The electrical engineer promotes adherence to operational and safety standards in charging infrastructure systems.	
(f) The electrical engineer develops maintenance strategies for charging infrastructure and electrical systems.		4	The electrical engineer can explain maintenance principles and lifecycle management for electrical systems and charging infrastructure.	The electrical engineer can establish maintenance procedures for charging stations, electrical systems and related equipment. The electrical engineer can develop maintenance strategies for electrical systems, motors and charging infrastructure.	The electrical engineer supports sustainable lifecycle management of charging infrastructure and electrical systems.	

Occupation:	Electrician	EQF Level:	5	ULOS (Units of Learning Outcomes)		
Tasks and responsibilities:		Level of competence:		Knowledge	Skills	Attitude
(a) The electrician installs, maintains, and repairs electrical wiring systems and charging infrastructure for e-bike charging stations in buildings and public spaces.		2,3		The electrician can describe electrical wiring systems and charging infrastructure used for e-bike charging stations.	The electrician can describe electrical wiring systems and charging infrastructure used for e-bike charging stations.	The electrician works safely and carefully when installing and maintaining electrical wiring and charging infrastructure.
(b) The electrician examines blueprints, wiring diagrams, and specifications to determine sequences and methods of operation.		3		The electrician can explain electrical blueprints, wiring diagrams and technical specifications used for charging infrastructure	The electrician can examine blueprints, wiring diagrams and specifications to determine installation sequences for e-bike charging systems.	The electrician works accurately when interpreting technical documentation for charging installations.
(c) The electrician plans the layout and installation of electrical wiring, equipment, and fixtures based on job specifications and relevant standards.		5		The electrician can explain standards and requirements for electrical installations and e-bike charging infrastructure.	The electrician can plan the layout and installation of electrical wiring and charging stations in buildings, public spaces and mobility hubs.	he electrician ensures that charging infrastructure complies with technical standards and safety regulations.
(d) The electrician inspects electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair.		3		The electrician can examine ³ electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair	The electrician can inspect electrical systems and charging equipment to identify hazards, defects and required adjustments.	The electrician prioritizes safety and reliability when assessing charging infrastructure installations.
(e) The electrician selects, cuts, and connects wire and cable to terminals and connectors.		3,5		The electrician can select ³ wire and cable to terminals and connectors The electrician can shape ⁵ wire and cable to terminals and connectors	The electrician can select wires and cables suitable for charging installations. The electrician can prepare and shape wires and cables for electrical connections. The electrician can connect wires and cables to terminals and connectors in charging stations.	The electrician works precisely when preparing and connecting wiring in charging installations.
(f) The electrician measures and lays out installation reference points.		2		The electrician can describe the structure and function of electrical distribution boards used in charging infrastructure.	The electrician can measure ² and laying out installation reference points	The electrician ensures safe and compliant installation of electrical distribution equipment.
(g) The electrician positions and installs electrical switchboards.		3,2			The electrician can install ³ electrical switchboards The electrician can place ² electrical switchboards	The electrician ensures accuracy when measuring and marking installation locations.
(h) The electrician tests electrical circuits and charging connections to ensure proper system operation.		2		The electrician can explain the principles of circuit continuity testing and electrical safety testing.	The electrician can test the continuity of electrical circuits and charging connections.	The electrician verifies electrical connections carefully to ensure safe and reliable charging system operation.