WP4

D4.1: Professional profiles definition

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SEB CoVE

SMART ELECTRICITY FOR BUILDINGS

D4.1: Professional profiles definition

SMART ELECTRICITY FOR BUILDINGS

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1	12/12/2024	EK	HMU	Restructuring professional sub-profiles
2	27/12/2024	CA	HMU	Splitting sub-professional profile Sub-Professional Profile: Renewable Energy Energy Storage Systems Installer, into two standing alone profiles. Splitting sub-professional profile Grid & Electricity Markets Specialist into two seperate profiles, updating the Grand Professional Profile

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Professional profiles in the Smart Electricity for Buildings sector

Executive summary

The "Professional Profiles Definition" document presents an updated and detailed framework for addressing critical skills gaps in the Smart Electricity for Buildings (SEB) sector. This framework is grounded in the findings of the deliverable *"D2.3 Competences and Skills Gap in the Smart Electricity for Buildings sector,"* ensuring that the identified professional roles align with industry demands and address the most pressing challenges. It defines an advanced professional pathway alongside eleven specialized sub-professional profiles, integrating technical, digital, and sustainability-oriented skills to meet evolving industry needs. This effort aligns with the SEBCoVE Erasmus+ project objectives, fostering innovation and sustainable development in the smart electricity for buildings sector.

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Grand Professional Profile: Specialist in Smart Electricity for Buildings

The Specialist in Smart Electricity for Buildings (EQF Level 6) is a strategic role that consolidates expertise in smart building automation, renewable energy systems, energy storage, data analytics, and sustainability. This role supports advanced system design, optimization, and cross-disciplinary collaboration, ensuring alignment with sustainability goals and the integration of cutting-edge technologies.

Sub-Professional Profiles

Eleven distinct sub-professional roles address the breadth of SEB industry needs:

1. **Digitalization and Automation Technologies Specialist** (EQF Level 5): IoT and BAS system integration.
2. **BAS Installer and Technician** (EQF Level 4): BAS installation and maintenance for energy efficiency.
3. **Renewable Energy Systems Installer** (EQF Level 5): Solar, wind, and hybrid renewable energy deployment.

4. **Renewable Energy Storage Systems Installer** (EQF Level 5): Integration of advanced storage technologies.
5. **EV Charging Systems Specialist** (EQF Level 5): Installation and integration of EV infrastructure.
6. **Energy Data Analyst** (EQF Level 6): Data-driven energy optimization using AI tools.
7. **Smart Grid Specialist** (EQF Level 6): Management of smart grid technologies and renewable integration.
8. **Electricity Markets Specialist** (EQF Level 6): Market-aligned energy system optimization.
9. **Buildings Energy Efficiency Auditor** (EQF Level 5): Energy audits and retrofitting for efficiency.
10. **Sustainability Manager** (EQF Level 6): Leadership in sustainability strategies and circular economy practices.
11. **Cross-Disciplinary and Soft Skills Specialist** (EQF Level 5): Project management, compliance, and stakeholder collaboration.

Modular Learning and Micro-Credentials

The profiles will adopt a stackable micro-credential structure, promoting flexibility, lifelong learning, and alignment with the European Qualifications Framework (EQF) and ECVET. Each credential can be pursued independently, culminating in full certification for the Specialist role.

Strategic Impacts

The updated framework is designed to:

- Address the skills shortage in the SEB sector through targeted training pathways.
- Promote sustainable practices, including energy efficiency and renewable energy integration.
- Enhance employability and mobility within the European labor market.

- Drive innovation and resilience by preparing professionals to navigate emerging technological and environmental challenges.

This comprehensive approach ensures a future-ready workforce capable of leading the transformation of smart buildings toward sustainability and innovation. The initiative positions the SEB sector as a leader in addressing global energy challenges through education and skill development.

Grand Professional Profile: Specialist in Smart Electricity for Buildings

EQF Level: 6

The Specialist in Smart Electricity for Buildings is a strategic role that consolidates expertise in smart building automation, renewable energy systems, energy storage, data analytics, electricity markets, and sustainability. This role supports advanced system design, optimization, and cross-disciplinary collaboration, ensuring alignment with sustainability goals and the integration of cutting-edge technologies. The specialist encompasses the core competencies of all eleven sub-professional profiles, ensuring a comprehensive and multidisciplinary approach:

1. **Digitalization and Automation Technologies Specialist**: Expertise in IoT and BAS integration.
2. **BAS Installer and Technician**: Proficiency in BAS setup and energy optimization.
3. **Renewable Energy Systems Installer**: Skills in deploying solar, wind, and hybrid renewable energy systems.
4. **Renewable Energy Storage Systems Installer**: Advanced knowledge of energy storage systems.
5. **EV Charging Systems Specialist**: Capabilities in integrating EV infrastructure with energy systems.

6. **Energy Data Analyst**: Expertise in data-driven energy optimization.
7. **Smart Grid Specialist**: Proficiency in managing smart grid technologies and renewable integration.
8. **Electricity Markets Specialist**: Skills in market-aligned energy management.
9. **Buildings Energy Efficiency Auditor**: Expertise in energy audits and retrofitting solutions.
10. **Sustainability Manager**: Leadership in sustainability strategies and circular economy practices.
11. **Cross-Disciplinary and Soft Skills Specialist**: Expertise in project management, regulatory compliance, and risk management.

By mastering all these sub-professional profiles, the Specialist becomes an integral figure capable of addressing the multifaceted challenges and opportunities in the SEB sector.

Modular Learning and Micro-Credentials

The profiles adopt a stackable micro-credential structure, promoting flexibility, lifelong learning, and alignment with the European Qualifications Framework (EQF) and ECVET. Each sub-professional profile is certified under the ISO/IEC 17024:2012 standard, ensuring international recognition and quality assurance in certification processes. Upon completing all eleven micro-credentials, professionals earn the full certification for the Specialist in Smart Electricity for Buildings. This structure guarantees:

- **Flexibility**: Learners can progress at their own pace, focusing on specific areas of expertise.
- **Recognition**: Certification under ISO/IEC 17024:2012 ensures global acknowledgment of their competencies.
- **Lifelong Learning**: Designed to support career development and adaptation to emerging technologies.

Strategic Impacts

The updated framework is designed to:

- Address the skills shortage in the SEB sector through targeted training pathways.
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- Drive innovation and resilience by preparing professionals to navigate emerging technological and environmental challenges.

Sub-Professional Profile 1: Digitalization and Automation Technologies Specialist

EQF Level: 5

Overview

The *Digitalization and Automation Technologies Specialist* focuses on the design, implementation, and maintenance of IoT-enabled systems for smart buildings. This role ensures seamless integration of interconnected devices, optimizing building automation, energy efficiency, and user comfort.

Responsibilities

- Configure and install IoT devices and Building Automation Systems (BAS).
- Monitor and troubleshoot IoT networks for optimal performance.
- Implement cybersecurity protocols for IoT system security.
- Collaborate with IT teams and building managers to improve system efficiency.

Competences

1. **Technical Competence:**
    - Proficiency in IoT hardware and software integration.

- Expertise in BAS programming and maintenance.
- Ability to diagnose system inefficiencies.

2. **Cybersecurity Competence:**
   - Knowledge of IoT security protocols and frameworks.
   - Proficiency in ensuring data privacy and secure device communication.
3. **Energy Optimization Competence:**
   - Skills in configuring IoT systems for energy monitoring and optimization.
   - Application of smart sensor technology for real-time efficiency.
4. **Soft Skills:**
   - Problem-solving to address system challenges.
   - Effective communication with non-technical stakeholders.

Skills and Knowledge Requirements

- Technical expertise in IoT setup and calibration.
- Cybersecurity knowledge to protect IoT ecosystems.
- BAS programming proficiency.
- Foundational knowledge of networking and smart building trends.

Training Pathways

- VET courses in IoT systems and BAS.
- Certifications such as Certified IoT Practitioner (CIP) and BAS Programming Certification.
- Hands-on training in building automation labs.

Career Pathways

- Smart Building Systems Specialist.
- IoT Network Engineer.

- Cybersecurity Analyst for IoT Systems.

Alignment with SEB Objectives

Supports SEB by enhancing energy efficiency, security, and IoT integration.

Micro-Credential Framework

Forms a foundational building block for broader smart building expertise.

Sub-Professional Profile 2: BAS Installer and Technician

EQF Level: 4

Overview

The *BAS Installer and Technician* specializes in installing and maintaining Building Automation Systems, ensuring operational efficiency and system reliability in smart buildings.

Responsibilities

- Install and configure BAS components, such as HVAC and lighting controls.
- Perform routine maintenance and troubleshooting of BAS.
- Optimize BAS for energy savings and operational efficiency.
- Train end-users on BAS functionality.

Competences

1. **Technical Competence:**
    - Expertise in BAS installation and configuration.
    - Skills in system diagnostics and fault resolution.
2. **Energy Optimization Competence:**
    - Ability to configure BAS for optimal energy usage.
    - Proficiency in using monitoring tools for performance tracking.
3. **Soft Skills:**

- Customer service skills for end-user interaction.
- Team collaboration for large-scale BAS projects.

Skills and Knowledge Requirements

- BAS programming knowledge (BACnet, Modbus).
- Understanding of energy-efficient building standards.
- Foundational knowledge of HVAC and lighting systems.

Training Pathways

- VET courses in BAS installation and energy management.
- Certifications such as BAS Programming Certification.
- Field training with smart building contractors.

Career Pathways

- BAS Specialist.
- Energy Systems Technician.
- Automation Project Lead.

Alignment with SEB Objectives

Facilitates smart building automation and energy efficiency initiatives.

Micro-Credential Framework

Complements IoT Integration Specialist for holistic smart system expertise.

Sub-Professional Profile 3: Renewable Energy Systems Installer

EQF Level: 5

Overview

The *Renewable Energy Systems Installer* focuses on deploying solar PV, wind energy systems, and hybrid energy solutions in smart buildings to enhance sustainability and energy independence.

Responsibilities

- Install solar panels, wind turbines, and hybrid systems.
- Perform routine inspections and maintenance.
- Integrate renewable systems with smart grid technology.
- Provide training on system operation and safety.

Competences

1. **Technical Competence:**
    - Skills in solar and wind system installation and maintenance.
    - Expertise in hybrid energy systems integration.
2. **Safety Competence:**
    - Adherence to safety regulations and grid compliance.
    - Knowledge of electrical safety protocols.
3. **Soft Skills:**
    - Problem-solving for system troubleshooting.
    - Effective teamwork in large-scale installations.

Skills and Knowledge Requirements

- Proficiency in renewable energy technologies.
- Understanding of smart grid integration.

- Familiarity with EU renewable energy standards.

Training Pathways

- VET courses on renewable energy systems.
- Certifications such as Certified Solar PV Installer.
- Field experience in renewable energy projects.

Career Pathways

- Renewable Energy Engineer.
- Energy Systems Manager.
- Smart Grid Specialist.

Alignment with SEB Objectives

Supports renewable energy integration within smart building frameworks.

Micro-Credential Framework

Provides specialized expertise in renewable energy, a critical SEB component.

Sub-Professional Profile 4: Renewable Energy Storage Systems Installer

EQF Level: 5

Overview

The *Renewable Energy Storage Systems Installer* specializes in deploying and maintaining energy storage solutions for renewable energy systems within smart buildings. This role ensures effective energy management, peak load optimization, and seamless integration of energy storage technologies with existing renewable systems and smart grids.

Responsibilities

- Install, configure, and maintain energy storage systems such as lithium-ion and flow batteries.

- Integrate energy storage systems with renewable energy sources (e.g., solar PV, wind).
- Optimize energy storage utilization for grid stabilization and peak demand management.
- Conduct diagnostics, repairs, and routine maintenance on storage systems.
- Collaborate with renewable energy engineers and smart grid specialists for seamless system integration.

Competences

1. **Technical Competence:**
    - Proficiency in energy storage system installation and configuration.
    - Expertise in integrating storage systems with renewable energy solutions and smart grids.
    - Skills in diagnostics and troubleshooting of energy storage systems.
2. **Energy Management Competence:**
    - Knowledge of battery management systems (BMS) and energy flow optimization.
    - Understanding of grid requirements for energy storage integration.
3. **Safety Competence:**
    - Familiarity with electrical safety standards and energy storage-specific safety protocols.
    - Ability to implement safe handling and disposal procedures for batteries.
4. **Soft Skills:**
    - Team collaboration for large-scale energy projects.
    - Communication skills for client interaction and technical reporting.

Skills and Knowledge Requirements

1. **Technical Skills:**

- Hands-on experience with energy storage technologies, including lithium-ion and flow batteries.
- Knowledge of renewable energy coupling with storage systems.
- Familiarity with BMS and smart grid technologies.

2. **Energy Optimization Skills:**
   - Techniques for optimizing energy flows and minimizing energy losses.
   - Use of real-time monitoring tools for storage systems.
3. **Safety and Compliance Knowledge:**
   - Awareness of EU safety standards and environmental regulations for energy storage.
   - Understanding of battery recycling and disposal requirements.

Training Pathways

- **VET Programs:**
  - Courses on energy storage technologies and renewable energy integration.
  - Specialized training on battery systems and smart grid interaction.
- **Certifications:**
  - Energy Storage Technician Certification.
  - Renewable Energy Integration Specialist Certification.
- **Hands-On Training:**
  - Practical workshops with energy storage and renewable energy providers.
  - Apprenticeships in renewable energy projects focusing on storage solutions.

Career Pathways

- Energy Storage Systems Technician.

- Renewable Energy Engineer.
- Smart Grid Integration Specialist.

Alignment with SEB Objectives

The *Renewable Energy Storage Systems Installer* contributes to the SEB sector by:

- Enhancing energy system reliability and efficiency through advanced storage solutions.
- Supporting renewable energy adoption by addressing intermittency challenges.
- Promoting grid stability and peak demand management.

Micro-Credential Framework

This profile forms an essential component of SEB micro-credentials, bridging renewable energy systems with smart storage technologies to meet future energy demand.

Sub-Professional Profile 5: EV Charging Systems Specialist

EQF Level: 5

Overview

The *EV Charging Systems Specialist* is responsible for the installation, maintenance, and integration of EV charging infrastructure within smart buildings, ensuring compatibility with energy management systems.

Responsibilities

- Install and configure EV chargers and V2G systems.
- Perform routine maintenance and troubleshooting.
- Integrate EV chargers with building energy management systems.
- Provide technical support and user training.

Competences

1. **Technical Competence:**
    - Expertise in EV charger installation and configuration.
    - Skills in V2G technology setup and integration.
2. **Energy Management Competence:**
    - Proficiency in integrating chargers with energy management systems.
    - Knowledge of load balancing for EV infrastructure.
3. **Safety Competence:**
    - Adherence to safety protocols for EV installations.
    - Familiarity with electrical standards and grid codes.

Skills and Knowledge Requirements

- Proficiency in EV charger technologies.
- Understanding of V2G systems and smart grids.
- Familiarity with EU standards for EV infrastructure.

Training Pathways

- VET courses on EV charger installation and maintenance.
- Certifications such as EV Charger Specialist.
- Hands-on training in V2G integration.

Career Pathways

- EV Infrastructure Engineer.
- Energy Systems Analyst.
- Smart Grid Consultant.

Alignment with SEB Objectives

Promotes EV adoption and smart grid integration for sustainable energy.

Micro-Credential Framework

Forms a key component of SEB expertise, enabling energy and transport convergence.

Sub-Professional Profile 6: Energy Data Analyst

EQF Level: 6

Overview

The *Energy Data Analyst* focuses on collecting, analyzing, and interpreting energy data to optimize building performance and ensure efficient energy management in smart systems.

Responsibilities

- Monitor energy consumption patterns and identify inefficiencies.
- Develop predictive models for energy usage optimization.
- Apply AI and machine learning tools to improve system performance.
- Collaborate with stakeholders to align energy strategies.

Competences

1. **Technical Competence:**
    - Proficiency in energy monitoring tools and analytics platforms.
    - Knowledge of AI applications for energy optimization.
2. **Data Analysis Competence:**
    - Skills in statistical analysis and predictive modeling.
    - Understanding of demand-response mechanisms.
3. **Soft Skills:**
    - Analytical thinking for data interpretation.
    - Communication skills to convey insights effectively.

Skills and Knowledge Requirements

- Proficiency in energy analytics software.
- Knowledge of smart grid and electricity market trends.
- Familiarity with data visualization tools.

Training Pathways

- VET courses on energy analytics and AI applications.
- Certifications such as Energy Data Analyst.
- Hands-on experience with real-time energy monitoring.

Career Pathways

- Energy Systems Analyst.
- Smart Grid Project Manager.
- Market Specialist in Renewable Energy.

Alignment with SEB Objectives

Enables data-driven energy optimization and demand-response capabilities.

Micro-Credential Framework

Key to smart grid and energy optimization, supporting sustainable practices.

Sub-Professional Profile 7: Smart Grid Specialist

EQF Level: 6

Overview

The *Smart Grid Specialist* is responsible for integrating and managing smart grid technologies to enhance energy distribution, load management, and building-grid interaction.

Responsibilities

- Deploy smart grid solutions to improve energy flow and system resilience.
- Integrate renewable systems and V2G technologies with grids.

- Develop load management strategies for peak demand periods.
- Collaborate with grid operators and building managers.

Competences

1. **Technical Competence:**
    - Proficiency in smart grid technology deployment.
    - Knowledge of grid interaction with renewable systems.
2. **Energy Management Competence:**
    - Skills in load balancing and demand-response strategies.
    - Proficiency in V2G systems for grid optimization.
3. **Soft Skills:**
    - Collaboration with cross-disciplinary teams.
    - Problem-solving for grid-related challenges.

Skills and Knowledge Requirements

- Technical expertise in smart grid infrastructure.
- Knowledge of electricity market dynamics.
- Familiarity with EU grid standards and regulations.

Training Pathways

- VET courses on smart grid systems and renewable integration.
- Certifications such as Smart Grid Specialist.
- Practical experience with smart grid technology providers.

Career Pathways

- Smart Grid Engineer.
- Energy Systems Consultant.
- Renewable Energy Integration Specialist.

Alignment with SEB Objectives

Enhances energy system efficiency and supports grid resiliency.

Micro-Credential Framework

Essential for advanced roles in energy management and grid interaction.

Sub-Professional Profile 8: Electricity Markets Specialist

EQF Level: 6

Overview

The *Electricity Markets Specialist* focuses on the operations, regulations, and optimization strategies of electricity markets, ensuring efficient energy transactions and cost-effective management of energy systems in smart buildings and renewable energy projects. This role bridges the technical and economic aspects of energy systems, contributing to market-aligned energy solutions.

Responsibilities

- Analyze electricity market trends, pricing structures, and demand-supply dynamics.
- Optimize energy usage and transactions in alignment with electricity market operations.
- Integrate demand-response strategies and renewable energy systems into market frameworks.
- Advise on regulatory compliance, market participation, and billing strategies.
- Collaborate with smart grid specialists and energy data analysts for market-aligned energy management.

Competences

1. **Market Analysis Competence:**
    - Expertise in evaluating market data, trends, and energy pricing structures.
    - Skills in forecasting electricity demand and managing energy portfolios.
2. **Regulatory Competence:**
    - Familiarity with electricity market regulations, grid codes, and compliance standards.

- Proficiency in advising on market participation and contract negotiations.

3. **Energy Optimization Competence:**
   - Knowledge of integrating demand-response mechanisms with energy systems.
   - Skills in leveraging renewable energy systems for market-driven energy solutions.
4. **Soft Skills:**
   - Analytical thinking for strategic market participation.
   - Communication skills for presenting market insights and strategies.

Skills and Knowledge Requirements

1. **Technical Skills:**
   - Proficiency in electricity market modeling and optimization tools.
   - Understanding of market-driven energy system design and operation.
2. **Regulatory Knowledge:**
   - Familiarity with EU energy market regulations and policies.
   - Knowledge of market compliance standards and grid requirements.
3. **Data Analysis Skills:**
   - Skills in using analytics tools for demand forecasting and market strategy development.
   - Knowledge of data-driven insights to optimize market participation.

Training Pathways

- **VET Programs:**
  - Courses on electricity market operations, regulations, and optimization.
  - Specialized training on energy economics and demand-response strategies.

- **Certifications:**
  - Electricity Market Analyst Certification.
  - Renewable Energy Market Specialist Certification.
- **Hands-On Training:**
  - Practical experience with market simulation tools and platforms.
  - Apprenticeships in energy trading and market analysis roles.

Career Pathways

- Electricity Market Analyst.
- Energy Trader for Renewable Systems.
- Regulatory Compliance Specialist for Energy Markets.

Alignment with SEB Objectives

The *Electricity Markets Specialist* enhances the SEB sector by:

- Aligning energy systems with market demands and pricing strategies.
- Promoting efficient and cost-effective energy management.
- Ensuring regulatory compliance and strategic market participation.

Micro-Credential Framework

This profile provides advanced knowledge and skills in electricity market operations, forming a critical component of SEB micro-credentials for professionals involved in energy system optimization and market participation.

Sub-Professional Profile 9: Buildings Energy Efficiency Auditor

EQF Level: 5

Overview

The *Energy Efficiency Auditor* specializes in evaluating building energy performance and recommending retrofitting solutions to improve efficiency and sustainability.

Responsibilities

- Conduct comprehensive energy audits of smart buildings.
- Recommend retrofitting solutions for HVAC, lighting, and insulation.
- Develop energy-saving strategies aligned with sustainability goals.
- Provide compliance assessments with energy efficiency standards.

Competences

1. **Technical Competence:**
    - Expertise in energy auditing tools and techniques.
    - Knowledge of retrofitting solutions and building systems.
2. **Sustainability Competence:**
    - Understanding of sustainable building practices.
    - Skills in promoting circular economy principles.
3. **Soft Skills:**
    - Analytical thinking for performance evaluations.
    - Effective communication with building managers.

Skills and Knowledge Requirements

- Proficiency in energy modeling and assessment tools.
- Knowledge of EU energy efficiency directives.
- Familiarity with HVAC and insulation technologies.

Training Pathways

- VET courses on energy efficiency and retrofitting.
- Certifications such as Certified Energy Auditor.
- Hands-on training in building performance assessments.

Career Pathways

- Sustainability Consultant.
- Energy Optimization Specialist.
- Retrofitting Project Manager.

Alignment with SEB Objectives

Supports sustainable building practices and energy optimization efforts.

Micro-Credential Framework

Critical for advancing energy efficiency within the SEB sector.

Sub-Professional Profile 10: Sustainability Manager

EQF Level: 6

Overview

The *Sustainability Manager* leads initiatives to integrate sustainability principles in smart building management, ensuring alignment with environmental and circular economy goals.

Responsibilities

- Develop and implement sustainability strategies for smart buildings.
- Promote Zero Energy Building (ZEB) practices.
- Oversee resource efficiency and waste reduction programs.
- Ensure compliance with environmental regulations and standards.

Competences

1. **Leadership Competence:**

- Ability to lead sustainability initiatives across projects.
- Skills in stakeholder engagement for green practices.

2. **Sustainability Competence:**
    - Proficiency in lifecycle assessments and circular economy principles.
    - Expertise in ZEB design and implementation.
3. **Soft Skills:**
    - Communication skills to advocate sustainability efforts.
    - Problem-solving for environmental challenges.

Skills and Knowledge Requirements

- Technical knowledge of sustainability frameworks.
- Familiarity with EU Green Deal and EPBD standards.
- Proficiency in resource efficiency tools.

Training Pathways

- VET courses on sustainability and environmental management.
- Certifications such as Zero Energy Building Specialist.
- Practical experience in sustainability project implementation.

Career Pathways

- Environmental Compliance Manager.
- Green Building Consultant.
- Circular Economy Specialist.

Alignment with SEB Objectives

Promotes sustainability and resource efficiency in smart buildings.

Micro-Credential Framework

Completes the SEB stack with a focus on long-term sustainability and compliance.

Sub-Professional Profile 11: Cross-Disciplinary and Soft Skills Specialist

EQF Level: 5

Overview

The *Cross-Disciplinary and Soft Skills Specialist* provides essential support to all smart electricity professions by focusing on project management, regulatory compliance, communication, and risk management. This role ensures smooth collaboration across multidisciplinary teams and alignment with industry regulations.

Responsibilities

- Lead project planning and execution, ensuring timely delivery.
- Ensure compliance with relevant regulations and standards.
- Establish effective communication and collaboration channels among teams.
- Identify, assess, and manage risks associated with SEB projects.

Competences

1. **Project Management Competence:**
    - Proficiency in prioritizing tasks and managing project dependencies.
    - Skills in tracking milestones, deliverables, and budgets.
2. **Regulatory Compliance Competence:**
    - Expertise in reviewing and interpreting laws, directives, and standards.
    - Ability to apply regulatory frameworks to SEB projects.
3. **Communication and Collaboration Competence:**
    - Proficiency in using digital communication and collaboration tools.
    - Ability to foster open and transparent communication among stakeholders.
4. **Risk Management Competence:**
    - Skills in risk identification, assessment, and prioritization.

- Knowledge of developing contingency plans to address potential issues.

Skills and Knowledge Requirements

1. **Technical Skills:**
   - Use of project management software and tools.
   - Knowledge of risk management frameworks and strategies.
2. **Regulatory Knowledge:**
   - Familiarity with EU regulations in electrical and smart building sectors.
   - Understanding of compliance requirements and safety standards.
3. **Soft Skills:**
   - Leadership and team collaboration.
   - Effective communication and negotiation skills.

Training Pathways

- **VET Programs:** Courses in project management, compliance, and communication.
- **Certifications:**
  - Certified Project Management Professional (PMP).
  - Risk Management Certification.
- **Practical Training:**
  - Apprenticeships focusing on regulatory and project leadership roles.

Career Pathways

- Project Manager in Smart Electricity Projects.
- Regulatory Compliance Specialist.
- Risk Assessment Consultant.

Alignment with SEB Objectives

The *Cross-Disciplinary and Soft Skills Specialist* ensures seamless coordination and compliance across SEB projects, promoting efficiency and mitigating risks.

Micro-Credential Framework

Forms a fundamental layer in SEB micro-credentialing by bridging technical and non-technical expertise for successful project outcomes.

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