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Trends and needs in digital logistics training

Survey of teachers and trainers in the sector

Partners:

This survey aims to conduct a needs analysis of digital skills in the logistics sector for EQF level 5 courses in Europe. The results obtained will contribute to the development of educational resources focused on the current digital needs of the sector.

Educational institution:..... .....

Title(s) of training(s) in logistics: ....

1. In your opinion, what skills should be strengthened in the logistics professions:

    - Digital skills (management of new generation software and equipment)
    - Behavioral skills
    - Organizational and managerial skills
    - Technical skills (logistics tools, knowledge and techniques)

2. Among the following skills related to Digital, which would be more particularly expected of logisticians with a BAC+2 level in a company?

- Manage the information needed for the business
- Improve the management of flows and their optimization
- Improve communication
- Support for better traceability and positioning of items
- Coordinate efficient automation systems: handling, storage and palletizing
- Drive self-guided trolleys or robots
- Ensure first-level maintenance of usual connected objects
- Interact with robots
- Improve the environmental performance of your activities

3. What technologies do you consider necessary to master for the future logisticians you train (multiple answers possible)?

- Barcode showers
- PDAs/mobile terminals
- Voice control for order picking
- Visual recognition technologies (tomographic scan...)
- Radio Frequency Identification (RFID) chip systems
- Electronic Data Interchange (EDI)
- Dematerialization of documents (e-CMR, e-invoices...)
- Connected objects, Internet of Things (IoT)
- Big data
- Cloud computing
- Drones for inventory, surveillance...
- Virtual Reality/Augmented Reality, Metavers
- Cybersecurity
- Artificial intelligence, machine learning and deep learning
- Blockchain
- Other, specify:

4. What resources do you have at your disposal to teach different topics of logistics digitalization?
   - Reference manuals, please specify which ones:
   - Videos
   - MOOC
   - Educational games/serious game
   - Specialized magazines
   - Speakers from the sector
   - Internal feedback from meetings/forums
   - Personal courses
   - Other, please specify:

5. For which topics related to the digitalization of logistics would you need more educational resources and materials?
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   .....
   .
6. In order to prepare EQF level 5 learners to use professional software (WMS, ERP, etc.), would you need computer interfaces or case studies?
   YES NO

   If Yes, name of the desired tools:
   If No, why:
   - Internal Resources
   - Case studies too theoretical
   - Not a request from companies
   - Other, please specify:

7. What other types of supports or tools would you need more generally to deal with the digitalization of logistics in training?
    - Powerpoint supports
    - E-learning module
    - Documented sources
    - Videos/Conferences
    - Educational games
    - Other, please specify:

8. In 10 years, which areas of knowledge have become more complex or different in teaching and training due to the evolution of technologies in logistics?

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    .....
    .....

9. Rate the extent of your knowledge of the following topics on a scale of 1 to 5 (1=very poor knowledge, 5=excellent knowledge):

- Radio Frequency Identification (RFID) chip systems
- Electronic Data Interchange (EDI)
- Dematerialization of documents (e-CMR, e-invoices...)
- Internet of Things (IoT)
- Edge computing
- Big data
- Cybersecurity
- Artificial intelligence
- Blockchain, smart contract
- LoRa
- 5GE
- Automation
- Robotization
- Cobotics

10. Do you have any other comments or requests that could be useful for the development of educational resources for the digital transformation of logistics?

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