European Skills for

International Trade & Logistics

Mobility training modules

Transport and Logistic Operational Manager

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Links between activities, skills units and mobility training units

ACTIVITIES	SKILLS UNITS	MOBILITY TRAINING UNIT
		Module 1: Evaluation of the feasibility of transport operations and selection of sub-contractors
Activity 1: Implementation of freight transport	Unit 1: To implement freight transport operations	Module 2: Organisation and running of transport operations
operations		Module 3: Monitoring of transport operations and improvement of the performance of transport
Activity 2: Organisation and management of warehouse activities associated with	Unit 2: To organise and to manage warehouse activities associated with transport	Module 4: Designing warehouse solutions and improvement of the performance of warehousing services
transport		Module 5: Coordination of warehouse operations
Activity 3: Asset management associated with transport	Unit 3: To manage assets and technology taking into account environmental, social and economic challenges	Not relevant for mobility
Activity 4: Management of the service relationship	Unit 4: To manage the service relationship	Not relevant for mobility
Activity 5: Team management	Unit 5: To manage a team	Not relevant for mobility

Module N° 1: Evaluation of the feasibility of transport operations and selection of subcontractors

Link with the skills repertory

Unit 1: To implement freight transport operations

Professional situation(s)

Starting with a client request, the Transport and Logistics Operational Manager is responsible for the feasibility assessment of the transport operation. Therefore, he/she makes sure to be in possession of all the information and human resources necessary.

He/she shall also consider the possibility of subcontracting part or all of the transport mission. If he/she decides to subcontract, he/she is responsible for identifying and selecting a suitable subcontractor.

Module Objectives

Skills	Detailed skills	Associated knowledge
U1S1 – TO EVALUATE THE	U1S1.1 – To qualify the enquiry	U1K1 – Transport demand
FEASIBILITY OF TRANSPORT	for transport	U1K2 – Supply chain management
OPERATIONS	U1S1.2 – To match the demand	U1K3 – Transport means and modes
	with the company's offer to	including multimodal options
	take a decision	U1K5 – Transport service offer
U1S3 – То снооѕе	U1S3.1 – To identify the	
POSSIBLE SUB-	elements to sub-contract for	
CONTRACTORS	transport	
	U1S3.2 – To select a sub-	
	contractor	

Skills	Detailed skills	Limitations or content	Pedagogical advice
U1S1 – To	U1S1.1 – To	-Identification of relevant	-Use a step-by-step
EVALUATE THE	qualify the	information provided by	approach to make learners
FEASIBILITY OF	enquiry for	the client	understand the impact of
TRANSPORT	transport	-Only to be done in	each element on the
OPERATIONS		response of a client's	transport mission
		request	transmitted by the client
		-Request of the missing	-Propose case studies of
		elements that are	increasing difficulty
		necessary for the	-Could be developed in a
		assessment	company or at
		-Analysis of the request	school/training center
		-Assessment methodology	using role-play (learn to ask
			relevant questions to the
			client) and/or case studies
			-Require the use of
			communication tools, such
			as telephone, e-mail

	U1S1.2 – To match the demand with the company's offer to take a decision	-Understanding and respect of the company's service offer -Comparison of the results of the assessment with the company's service offer -Decision-making in a pre- established frame -Identification of any necessary adjustments in the company's service offer	-Could be developed in a company or at school/training center with case studies -Use real case studies with updated information from companies -Vary company profiles to work on a wide range of offers
U1S3 – TO CHOOSE POSSIBLE SUB-CONTRACTORS	U1S3.1 – To identify the elements to sub- contract for transport	-The pre-established company's service offer -Being able to ascertain which requests can be satisfied within the company's service offer	-Could be developed in a company or at school/training center -Use real case studies with updated information from companies allowing to understand the different reasons to sub-contract
	U1S3.2 – To select a sub- contractor	-Searching strategies for possible sub-contractors -Analysis and comparison techniques of the service offer of sub-contractors -Pre-established criteria for the selection of sub- contractor.	-Could be developed in a company or at school/training center -Provide exemplary service offers to learners and a company's sub-contracting criteria and make them select the best offers -Working groups could be organised to make learners discuss about the different offers -Use the information from the subcontractor monitoring dashboards

Associated knowledge	Content	Pedagogical advice
U1K1 – Transport demand	-The essential elements of the transport request: the client, the characteristics of the shipment and the ancillary services	 Explain the essential elements using a step-by-step approach to make learners understand the impact of each element on the transport mission Propose case studies of increasing difficulty Role-play (one playing the client, one the transport manager) to train asking the relevant questions to the client

U1K2 – Supply chain management	-The actors of the logistics chain, their place and role -Analysis of the flows between the different players in the logistics chain.	-Presentation of each actor, their place and role in the logistics chain -Ask learners to summarise the information using structuring methods to present information in a clear way, e.g. mind mapping or sketch noting (visual and graphical method of organising information, which helps to understand complex relationships)
U1K3 – Transport means and modes including multimodal options	-The technical, geographical, economic and environmental characteristics of the five modes of transport and of multimodal transport. -The main transport networks in the European Union.	 -Introduce the main characteristics of the five modes of transport and of multimodal transport -The "Expert and peer learning groups" method could be used to go more in depth (see explanations in the footnote)¹. -Introduce the main transport networks in the EU using digital tools -Use online quizzes or digital applications (Anki, Quizlet) to memorise the most important information
U1K5 – Transport service offer	 -Full and part load transport -Groupage -Chartering -Courier and express delivery -Intermodal Transport Units -Bulk transport -Specialised transport: transport of temperature- controlled goods, dangerous goods, exceptional transport -Removal transport -Freight forwarding 	 -Flipped classroom method: teacher provides learners with information about the different transport service offers / students learn at home / the time in class is used to answer questions and discuss short study cases about each transport service offer specificity - Can be studied in the case studies provided to learners throughout the module

No.

¹ Create groups of 6 learners = "peer learning groups". Each learner is responsible for acquiring more knowledge about one of the transport modes or intermodal transport. To do so, learners meet in "expert groups" about their topic to study together and prepare a presentation (if relevant, teacher can provide a template), then they return to their initial group meaning that in every peer learning group, there is one member of each expert group. Experts transmit their knowledge using the material prepared in the expert group, retaining in turn the information presented by their colleagues, experts in the other modes.

Module N° 2: Organisation and running of transport operations

Link with the skills repertory

Unit 1: To implement freight transport operations

Professional situation(s)

The Transport and Logistics Operational Manager organizes ad hoc or scheduled operations taking into account economic, environmental, social and legal requirements. He/she may be required to process customs formalities.

Module Objectives

Detailed skills	Associated knowledge
U1S2.1 – To choose one or more modes and	U1K4 – Organisation of a transport company
means of transport	U1K6 – Regulations for the transport of goods
U1S2.2 – To operate and adjust the transport	U1K8 – Regulations for customs for the
network	transport of goods
U1S2.3 – To choose the delivery procedures	U1K9 – Incoterms
U1S2.4 – To clear customs	U1K10 – Loading plan
	U1K11 – Routes, traceability and mapping
	tools
	U1K12 – Scheduling and planning methods
	U1K14 – Transport related insurance

Detailed skills	Limitations or content	Pedagogical advice
U1S2.1 – To choose one or more modes and means of transport	 Identification of the different characteristics of the means of transport, Advantages and disadvantages regarding the situation to study, Weighted selection criteria for the selection of the best option 	 -Teacher/Tutor creates case-studies for different goods: students find out in groups, which transport modes are the best for each goods category - Insist on the method and criteria of choice - It is necessary to argue the choices made
U1S2.2 – To operate and adjust the transport network	 Use of the most appropriate network elements Need for an organization plan Reaction needed if the network must be reconstructed 	 -Could be developed in a company or at school -Working groups could be organised to make learners discuss about the different possibilities - Use cooperative learning (for example work alone, then partner work and foursome talk at the end)
U1S2.3 – To choose the delivery procedures	 Identification of the different delivery procedures, Advantages and disadvantages in respect with the transport orders and in 	-Could be developed in a company or at school/training center -Provide exemplary delivery procedures to learners and make them select the best ones

	relation to the costs of transport - Weighted selection criteria for the selection of the best option	 Working groups could be organised to make learners discuss about the different possibilities A cooperative learning can be used as well
U1S2.4 – To clear customs	 Selection of the Incoterms in coordination with the clients Modalities of import and export clearance in compliance with customs & tax-legislation. Customs procedure including all the necessary documents. Evaluation of import duties and taxes 	 -Describe the different documents to the students through different situations - Alert on the key information to pay attention to -Focus on the capacity to identify applicable regulations -Insist on the necessary rigour in the calculations - Use customs websites

Associated knowledge	Content	Pedagogical advice
U1K4 – Organisation of a transport company	-The different kinds of transport companies. -Organization chart and job profiles.	-Multiply the examples of transport companies -Bring in professionals to present their company and their organisation
U1K6 – Regulations for the transport of goods	-Customs regulations, -Rules for transporting specific goods (dangerous, refrigerated, fragile) -Traffic regulations -Rules for driving hours, working times. -Workplace regulations.	-Students are given (or research by themselves) text contents with regulations in order to recognize the need and the advantage of regulations. -Be vigilant about the updating of regulations
U1K8 – Regulations for customs for the transport of goods	-Modalities of import and export clearance in compliance with customs & tax-legislation. -Customs procedure -Customs documents	 -Showing slides with the different documents, handing out copies to the students. -Case studies to decide a means of transport. -Flipped classroom method: teacher provides learners with information about the different regulations/ students learn at home / the time in class is used to answer questions and discuss short study cases about each regulation
U1K9 – Incoterms	-Cost sharing according to Incoterms	-Give an overview about the different rules of Incoterms.

	-Risk sharing according to Incoterms	 -Practical case studies by creating examples for transport situations. - Provide quotations exercises
U1K10 – Loading plan	-Measurements and capacity of the loading units -Loading plan techniques, mathematically and graphically	 -Use case studies for transport examples. -Find out the most appropriated transport system. -Use the spreadsheets and software available
U1K11 – Routes, traceability and mapping tools	-Only the routes and mapping tools for transport are relevant here. -Maps of national and European roads and motorways/railway junctions and important railway loading places, worldwide shipping routes and airports	-Use case studies -Use the digital mapping tools and resources
U1K12 – Scheduling and planning methods	-Transport exchange tools	-Provision of transport exchange tools for inhouse or school training.
U1K14 – Transport related insurance	-The different types of insurance and the covered risks -The cost of insurance	-Comparing different insurance companies concerning costs and efforts.

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Module N° 3: Monitoring of transport operations and improvement of the performance of transport

Link with the skills repertory

Unit 1: To implement freight transport operations

Professional situation(s)

The Transport and Logistics Operational Manager must continuously seek to optimize the transport operations to stay competitive and to respond to increasing clients' expectations and social requirements in compliance with rules, safety and security regulations and customs requirements. As an operational manager, he/she can foster the development of a sustainable economy and the overall greening process through his/her actions and decisions.

Module Objectives

Skills	Detailed skills	Associated knowledge
U1S4 – TO MONITOR	U1S4.1 – To ensure traceability	U1K7 – Regulations relating to social
TRANSPORT OPERATIONS	to check conformance of the	practices, health, safety, and the
	transport operation	environment
	U1S4.2 – To implement	U1K11 – Routes, traceability and
	mitigation measures	mapping tools
	U1S4.3 – To resolve incidents	U1K13 – Incidents and unforeseen
U1S5 – TO IMPROVE THE	U1S5.1 – To design quantitative	events
PERFORMANCE OF	and qualitative indicators	U1K14 – Transport related insurance
TRANSPORT OPERATIONS	U1S5.2 – To identify areas for	U1K15 – Procedures for incident
	improvement	management
	U1S5.3 – To propose corrective	U1K16 – Key Performance Indicators
	actions to decision-makers	U1K17 – Quality monitoring
		methods

Skills	Detailed skills	Limitations or content	Pedagogical advice
U1S4 – To	U1S4.1 – To	- Identification of the role	- Could be developed at
MONITOR	ensure	and the traceability tools	school, but also in a
TRANSPORT	traceability to	to be used,	company for more realism
OPERATIONS	check conformance of the transport operation	- Traceability techniques in the performance and monitoring of the transport operation and	and efficiency - Insist on the impact this skill has on the quality and reliability of the indicators
		logistics services	used in the dashboards
	U1S4.2 – To implement mitigation measures	 Selection pf the relevant information from the traceability system Methods of carrying out transport operations 	- Could be developed in a company or at school with role-play and/or case studies
	U1S4.3 – To resolve incidents	 The situation must be qualified, 	 Could be developed in a company or at school with

		 Consequences of the incident or unforeseen event, in terms of liability and in commercial terms, Assessment of the urgency and seriousness of the incident or unforeseen event, Technical, commercial and organisational measures to preserve the goods, and ensure the transport operation, Consequences of these measures on the transport schedule and plan 	role-play and/or case studies: it is important to put the learners in the most real situation possible - Insist on the necessary adaptability and reactivity in the follow-up of the transport - Requires the use of communication tools, especially telephone, with the client during role- playing
U1S5 – TO IMPROVE THE PERFORMANCE OF TRANSPORT OPERATIONS	U1S5.1 – To design quantitative and qualitative indicators	 Identification of expected results and objectives Identification of the performance indicators Data-collection Data processing 	 Use dashboards to highlight significant impacts, Insist on the necessary reliability, updating and relevance of indicators The use of spreadsheets is recommended: from simple functions to stable dynamic cross-tabulations
	U1S5.2 – To identify areas for improvement	- Gaps between indicators and targets - Focus on the key issues	 Select specific work situations Establish links between indicators Students are to be put in relation with the evolutions of the logistics market (social and corporate responsibility, quality of service) The focus should not be on the completeness of the treatment of indicators, but on the precise identification of an identified problem
	U1S5.3 – To propose corrective actions to decision- makers	 Reporting techniques on the analysis of the indicators Causes of poor-quality information 	-Simulations using a spreadsheet or other software tools (use of pivot tables, the target value tool, macro) can be carried out.

	 Proposals for corrective action 	- Have the students work in groups, each group proposing and arguing a solution orally or in writing

Associated knowledge	Content	Pedagogical advice
U1K7 – Regulations relating to social practices, health, safety, and the environment	-Collective agreements, social law and European regulations -The hierarchy of legal sources	 Not to be exhaustive, but to show how and where to find the right information in a given situation Consider now the links between the regulations and the indicators to be produced Base the teaching on the study of many different cases covering the different fields of social practises, health, environment and safety
U1K11 – Routes, traceability and mapping tools	-Only the traceability tools for transport are relevant here -The issues and general principles of traceability of goods and materials -Identification and data collection tools -The impact of traceability on the quality and performance of the transport operations	 Not to be exhaustive, but to present the traceability tools most used in companies To follow the evolution of technologies in this field (e.g. by setting up a watch or going to trade fairs) To raise awareness of the importance of traceability for transport companies, in a context of increasing digitalisation and ever higher demands for quality and client feedback
U1K13 – Incidents and unforeseen events	-Characteristics of an incident and an unforeseen event -Consequences of an incident and an unforeseen event	 To work on transport companies' examples To multiply the examples in order to identify similarities and differences between the situations studied
U1K14 – Transport related insurance	 -Insurable risks -The main insurances related to transport: insurance of the goods transported, ("cargo insurance"), civil 	-The teaching is based on the study of the main provisions of each insurance, and on insurance contracts when possible.

	liability insurance and fleet insurance.	
U1K15 – Procedures for incident management	 The responsibility of the carrier Measures to safeguard the goods Precautionary measures Communication with clients in incident management 	 Rely on company protocols Consider that multiple solutions are possible Have learners compare the different proposals in terms of ease of implementation, of effectiveness and of cost.
U1K16 – Key Performance Indicators	-The components of business performance -Quantitative and qualitative indicators	 -Use simple dashboards made with a spreadsheet, with simple built-in spreadsheet functions -Process data with ratio calculations and graphs -No programming of functions is required.
U1K17 – Quality monitoring methods	-Operational analysis methods -Cause analysis methods -Methods for choosing solutions -Methods for optimising a process	 Simulations using a spreadsheet or other software tools (use of pivot tables, target value tool, macro) can be performed Present one or two methods at a time: for example Ishikawa diagram and Pareto diagram for the cause analysis methods, compatibility matrix and decision tree for the methods for choosing solutions

Module N° 1: Evaluation of the feasibility of transport operations and selection of subcontractors Module N° 2: Organisation and running of transport operations

Module N° 4: Designing warehouse solutions and improvement of the performance of warehousing services

Link with the skills repertory

Unit 2: To organise and to manage warehouse activities associated with transport

Professional situation(s)

Within the framework of an identified (global) supply chain, the Transport and Logistics Operational Manager is a contributor to an operation or a transport plan, whereby he/she is responsible to organize the required logistic means from receipt of the goods up until they are loaded, including storage and the preparation of orders. He/she uses available physical resources to ensure the efficient provision of the services. He/she may be led to suggest improvements and to participate in the design of the warehouse organization.

Module Objectives

Skills	Detailed skills	Associated knowledge
U2S1 – TO DESIGN	U2S1.1 – To qualify the demand	U2K1 – Enquiry of logistic services
WAREHOUSE SOLUTIONS	for warehousing services	U2K2 – Logistic services offer
	U2S1.2 – To choose the terms	U2K3 – Organisation of a company
	and conditions for the	with a warehouse activity
	realisation of the services	U2K4 – Warehousing areas
	U2S1.3 – To size the space and	U2K11 – Regulations relating to
	resources required	social practices, health, safety, and
U2S3 – TO IMPROVE THE	U2S3.1 – To design quantitative	the environment
PERFORMANCE OF	and qualitative indicators with a	U2K12 – Pricing for warehousing
WAREHOUSING SERVICES	view to progress	services
	U2S3.2 – To propose corrective	U2K13 – Procedures for incident
	actions to decision-makers	management
		U2K14 – Warehouse optimisation
	U2S3.3 – To rationalise the	methods
	layout of warehouse areas and	
	the storage location of products	

Skills	Detailed skills	Limitations or content	Pedagogical advice
U2S1 – TO DESIGN	U2S1.1 – To	-Identification of the	-Use a step-by-step
WAREHOUSE	qualify the	relevant information	approach to make learners
SOLUTIONS	demand for	provided by the client	understand the impact of
	warehousing	-Missing elements that are	each element on the
	services	necessary for the	warehousing mission
		assessment	transmitted by the client
		-Methods of analysis of the	-Could be developed in a
		demand	company or at school with
		-Methodology used for the	role-play (learn to ask
		qualification	relevant questions to the
			client) and/or case studies

	U2S1.2 – To choose the terms and conditions for the realisation of the services	-Regulations to be applied -Different ways to carry out the logistic services required by the client in accordance with the warehouse resources - Price calculation for the realisation of the services	 -Can require using communication tools, such as telephone, e-mail -Could be developed in a company or at school with case studies or in the warehouse school -Use real case studies with updated information from companies (above all update tariffications)
	U2S1.3 – To size the space and resources required	 Identification of the types of resources required Calculation of the numbers of resources required Calculation of the space required 	-Could be developed in a company or at school with case studies or in the warehouse school
U2S3 – TO IMPROVE THE PERFORMANCE OF WAREHOUSING SERVICES	U2S3.1 – To design quantitative and qualitative indicators with a view to progress	 Identification of the expected results and objectives Identification of the performance indicators Data-collection Data processing 	 Based on dashboards to highlight significant impacts Insist on the necessary reliability, updating and relevance of indicators The use of spreadsheets is recommended: from simple functions to stable dynamic cross-tabulations
	U2S3.2 – To propose corrective actions to decision- makers	 Analysis of the gaps between indicators and targets Focus on the key issues Reporting of the analysis of the indicators Identification of the causes of non-quality and non-performance Proposals of corrective actions 	 Select specific work situations Establish links between indicators Students are to be put in relation with the evolutions of the logistics market (social and corporate responsibility, quality of service) The focus should not be on the completeness of the treatment of indicators, but on the precise identification of an identified problem

		-Simulations using a spreadsheet or other software tools (use of pivot tables, the target value tool, macro) can be carried out.
U2S3.3 – To rationalise the layout of warehouse areas and the storage location of products	According to the analyse of the indicators: - Redesigns of the warehouse flows organisation - Suitable storage location for products	-Could be developed in a company or at school with case studies or in the school warehouse -Use real case studies from companies

Associated knowledge	Content	Pedagogical advice
U2K1 – Enquiry of logistic services	-The essential elements of the logistic services request: the client, the characteristics of the logistic services	-Explain the essential elements using a step-by-step approach to make learners understand the impact of each element on the logistic mission -Role-play (one playing the client, one the logistic manager) to train asking the relevant questions to the client
U2K2 – Logistic services offer	-Goods reception -Storage -Order preparation -Packing -Expedition -Packaging returns	-Flipped classroom method: teacher provides learners with information about the different transport service offers / students learn at home / the time in class is used to answer questions and discuss short study cases about each transport service offer specificity - can be studied in the case studies provided to learners throughout the module
U2K3 – Organisation of a company with a warehouse activity	-Methods of analysis of human resource needs and types of packaging equipment systems and handling of goods	 Provide learners with multiple examples of companies with warehouse activities Use visual and structuring methods to summarise the information and present it in a clear way, e.g. mind mapping or sketch noting (visual and

		graphical method of organising information, which helps to understand complex relationships)
U2K4 – Warehousing areas	-The structure of warehouses and distribution centres -The role of the different warehouse areas -The method to size the different areas	 Relate the organisation of the warehouse to the type of goods to be handled and their packaging, as well as to the volume and seasonality of flows and stocks, and the specific regulations for certain goods (e.g. hazardous materials) Use maps of warehouses Organise visits to warehouses Consider the different areas in a flow logic
U2K11 – Regulations relating to social practices, health, safety, and the environment	-Safety and hygiene regulations in warehouses for people and goods. -Risk prevention and health surveillance plans. -National and European social regulations relevant in the work organisation -Collective agreements -National and European regulations about environment	 Not to be exhaustive, but to show how and where to find the right information in a given situation Base the teaching on the study of many different cases covering the different fields of social practises, health, environment and safety
U2K12 – Pricing for warehousing services	 The components of the different tariffs The determination of the price of logistics services 	 These can be learned in school and practised in a company. Teaching should be based on rates used in the profession and be based on pre-existing tariffs. Costs do not have to be calculated but must be taken into account from a profitability perspective.
U2K13 – Procedures for incident management	 The responsibility of the warehouse Protocols or procedures for action in the event of incidents. Measures to safeguard the goods 	 Rely on company protocols To be studied in accordance with the type of equipment, installations and goods handled. Consider that multiple solutions are possible

	-Communication with clients in incident management -Specific risk prevention procedures in the warehouse	- Have learners compare the different proposals in terms of ease of implementation, of effectiveness and of cost.
U2K14 – Warehouse optimisation methods	-Method for locating logistics spaces -Method for optimising internal flows -The contribution of the use of new technologies in the warehouse	It is recommended to practice these in a company Use flipped classroom Rely on expert Use role-playing of oral professional situations Use digital simulation software (augmented reality)

No.

Link with the skills repertory

Unit 2: To organise and to manage warehouse activities associated with transport

Professional situation(s)

The Transport and Logistics Operational Manager is responsible to organize the required logistic means from receipt of the goods up until they are loaded, including storage and the preparation of orders. He/she uses available physical resources to ensure the efficient provision of the services.

Module Objectives

Detailed skills	Associated knowledge
U2S2.1 – To plan warehousing activities	U2K5 – Warehouse flows management
	U2K6 – Scheduling and planning methods
U2S2.2 – To ensure the traceability to check	U2K7 – Documentation for the logistic services
conformance of the warehousing services	U2K8 – Warehouse management system
	U2K9 – Traceability and its tools
U2S2.3 – To resolve incidents	U2K10 - Stock management

Detailed skills	Limitations or content	Pedagogical advice
U2S2.1 – To plan warehousing activities	 Calculation methods to estimate the time required to carry out the logistics services, or based either on standards known to the profession or based on the company's experience Management of the priorities and constraints Size of the necessary human and material resources Allocation methods for the different resources 	 Must be dealt with the dual objective of guaranteeing quality of service to clients and achieving maximum profitability. Consider the schedule as a dynamic tool that evolves to take into account unforeseen events (e.g., changes in client requests or unforeseen events and incidents). Must be based on the company's information system Could be learned at school/training center or in a company
U2S2.2 – To ensure the traceability to check conformance of the warehousing services	 Identification of the role and the traceability tools to be used, Implementation of the traceability techniques and their role in the performance and the monitoring of the logistics services 	 Could be developed at school/training center or in a company, with more realism and efficiency in the latter case
U2S2.3 – To resolve incidents	 The situation should be qualified Consequences of the incident, in terms of liability 	 Could be developed in a company or at school with role-play and/or case studies

and in commercial terms, - Technical, commercial and organisational measures to preserve the goods, and ensure the logistic operation, - Consequences of these measures on the transport schedule and plan.	- Insist on the necessary adaptability and reactivity in the follow-up of the logistic operation
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Associated knowledge	Content	Pedagogical advice
U2K5 – Warehouse flows management	-Goods receipt and dispatch -Warehousing and storage -Order picking and packaging -Management of load carriers and packaging returns	 Can be studied in companies or at school. Company visits can be very beneficial
U2K6 – Scheduling and planning methods	-Time calculation -Time standards -Designing a schedule -Using a schedule -Assessing a schedule	 Work on planograms including different types of constraints (time constraints, availability of equipment and personnel, etc.) Rely on the WMS The evaluation of the planning can be carried out by calculating the commitment rate and the occupancy rate
U2K7 – Documentation for the logistic services	-The documents necessary for logistical operations -Dematerialisation in warehouse logistics	- Use real companies documents
U2K8 – Warehouse management system	 The role of the information system in supply chain management Integrated solutions Data exchanges Specific software: mapping, route management, loading plan, planning, etc. On-board computing The spreadsheet 	- Could be developed mainly in a company
U2K9 – Traceability and its tools	-The traceability tools in the warehouse -The impact of traceability on the quality and performance of the warehousing operations	 Only the traceability tools for warehousing operations are relevant here Not to be exhaustive, but to present the traceability tools most used in companies

U2K10 - Stock management	-The different types of stock	 To follow the evolution of technologies in this field (e.g. by setting up a watch or going to trade fairs) To raise awareness of the importance of traceability for logistic companies, in a context of increasing digitalisation and ever higher demands for quality and client feedback Use of specialised tools and software. The training periods in companies will be used to this advantage. Emphasise the impact of the
	(safety stock, emergency stock, minimum stock, etc.) -The different methods of inventory management (inventory carrying costs, ordering costs) -Inventory valuation (First In, First Out - Weighted average unit cost methods) -Inventory management does not include probabilities	choice of method on the results of stock valuation - Work on simple situations

Module N° 4: Designing warehouse solutions and improvement of the performance of warehousing services, U2S1 – To design warehouse solutions

Key advice

For each module and through each pedagogical activity, teachers and trainers will pay attention to the development of all the transversal competences, autonomy, and responsibility as it is described in the skills repertory.

Transversal competences, autonomy and responsibility

To succeed in his/her job, the transport and logistics operational manager is required to have a range of transversal competences. He/she demonstrates flexibility, reactivity, creativity, rigor, organisation, and respect of regulations and professional ethics especially when he/she charters transport operations. He/she must be always aware of the different rules about working environment and conditions and take into account the Corporate Social Responsibility principles.

The transport and logistics operational manager must be able to work under pressure, to solve problems in a calm manner, to take into account the interests of others while remaining firm and assertive to defend the interests of his/her company. He/she must have strong leadership and relational skills as he/she is in a position of coordinating a team and cooperates with many different internal and external interlocutors. He/she must be able to communicate in English and have a good understanding of intercultural relations. At the same time, he/she shows genuine interest on the new transport and logistic processes using digitalisation.

Transport and logistics operational managers are autonomous in and responsible for their daily work in the framework of the company's objectives and will be held accountable for it. Their level of autonomy will depend on their working experience, the company's size, structure, and activity (transport and logistics or industrial and commercial activity), as well as the diversity and complexity of the activities they have to deal with and the processes they work on; this level of autonomy will ultimately be determined by the manager to whom they report. As operational managers, their autonomy impacts the development of a more sustainable and greener economy though their actions and decisions. They work under a regular validation process of their hierarchical responsible.