



# DIRECT -Competence-Map

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PARTNERS	MODULES	TOPICS / UNITS OF LEARNING	LEARNING OUTCOMES	KNOWLEDGE	SKILLS	COMPETENCE
CESUR	Modul 1 Introduction to Digital Literacy	Module 1.1 – Understanding Digital Devices	<p>The learner is able to, Understand the role of digital devices and operating systems in logistics.</p> <p>Use key devices and applications to improve efficiency in tasks such as tracking, inventory management, and communication.</p> <p>Apply knowledge of device functionality and operating systems to optimize logistics operations.</p>	<p>The learner recognizes digital devices like computers, tablets, smartphones, handheld scanners, and GPS systems are essential for logistics tasks, including order tracking, inventory management, and route navigation. Operating systems such as Android, iOS, Windows, and Linux power these devices, offering varying capabilities.</p>	<p>Learners will develop the ability to set up and manage digital devices for logistics, including configuring operating systems and using logistics-specific tools and apps. They will learn to handle practical tasks like scanning packages, tracking shipments, and navigating routes using GPS and other digital tools.</p>	<p>Learners will gain proficiency in leveraging digital devices and operating systems to enhance logistics efficiency, enabling real-time task management, secure communication, and improved operational productivity.</p>
		Module 1.2 – Using Mobile Devices	<p>The learner is able to, Set up and secure mobile devices for use in logistics operations.</p> <p>Connect mobile devices to necessary networks and peripherals for seamless operation.</p> <p>Efficiently use and manage mobile apps tailored to logistics tasks such as delivery tracking, route optimization, and inventory management.</p> <p>Navigate logistics tasks using mobile navigation tools for real-time delivery and fleet tracking.</p>	<p>Mobile Device Setup: Initial setup processes, importance of linking accounts, cloud access and backups. Specialized Apps.</p> <p>Device Security: practices for securing mobile devices, passwords and authentication. Risks associated with security.</p> <p>Connectivity: connect mobile devices, understanding connectivity. Advantages in logistics.</p> <p>Apps for Logistics: types of apps and their uses in logisctis.</p> <p>Mobile Navigation: GPS, navigation apps, tracking. Efficiency and customer satisfaction</p>	<p>Learner will acquire the following skills</p> <ul style="list-style-type: none"> <li>• Device Setup and Management:</li> <li>• App Management</li> <li>• Connecting Devices</li> <li>• Navigation Proficiency</li> </ul>	<p>Learners will gain operational expertise in leveraging mobile devices for logistics, enabling them to:</p> <ul style="list-style-type: none"> <li>• Optimize productivity through seamless app integration and device connectivity.</li> <li>• Ensure data security and minimize risks associated with lost or compromised devices.</li> <li>• Enhance route planning and inventory management using industry-specific tools.</li> <li>• Deliver reliable and efficient logistics services through real-time tracking and navigation.</li> </ul>

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		<p>Module 1.3 - Introduction to the Internet</p>	<p>The learner is able to, Explain the role of the internet in logistics and its applications, including communication, real-time tracking, and cloud-based tools.</p> <p>Identify key internet-related concepts like bandwidth, connectivity options, and browser functionality relevant to logistics operations.</p> <p>Demonstrate effective internet usage skills such as navigating browsers, conducting secure searches, and accessing online platforms.</p> <p>Apply cybersecurity practices to safeguard sensitive logistics data during online operations.</p>	<p>What the internet is: Understanding its function as a global network and its role in logistics operations.</p> <p>Connectivity options: Wi-Fi, mobile data, and Ethernet, and their relevance in various logistics scenarios.</p> <p>Bandwidth: Importance of data transmission speed for logistics tasks like file downloads and cloud access.</p> <p>Web browsers: Popular options (Chrome, Firefox, etc.) and their features for accessing logistics tools.</p> <p>Cybersecurity basics: Recognizing secure websites (HTTPS), phishing risks, and safe browsing practices.</p> <p>Search engine use: Utilizing tools like Google or Bing for information retrieval related to logistics.</p>	<p>Internet Navigation: Connecting devices to Wi-Fi or mobile networks. Managing bandwidth to optimize logistics operations.</p> <p>Browser Proficiency: Entering URLs, managing tabs, and bookmarking pages. Clearing browsing history and enhancing online privacy.</p> <p>Search Optimization: Using keywords effectively to find logistics-related information. Conducting advanced searches for precise results.</p> <p>Cybersecurity Practices: Identifying secure websites. Avoiding phishing sites and fraudulent links.</p>	<p>Learners will achieve foundational expertise in using the internet effectively within logistics contexts, enabling them to:</p> <ul style="list-style-type: none"> <li>Seamlessly integrate internet tools into daily tasks like shipment tracking and communication.</li> <li>Troubleshoot basic connectivity and browser-related issues.</li> <li>Implement security measures to protect sensitive data while online.</li> <li>Enhance operational efficiency by leveraging internet-based tools and resources.</li> </ul>
		<p>Module 1.4 - File Management</p>	<p>By the end of this module, learners will be able to: Identify and differentiate between various operating systems (Windows, Android, iOS, Linux, MacOS) and their applications in logistics.</p> <p>Demonstrate file management skills, including organizing, moving, copying, and naming files and folders effectively across different operating systems.</p> <p>Utilize cloud storage</p>	<p>Learner will acquire knowledge on the following areas</p> <p>Overview of Operating Systems: Functions of operating systems: File Management Basics</p> <p>Definition and advantages of cloud storage. Popular cloud services</p> <p>File Security and Backups</p>	<p>Learner will be able to:</p> <p>Navigating and utilizing file management tools on different operating systems (e.g., File Explorer for Windows, Finder for MacOS, and mobile file management apps).</p> <p>Creating logical folder structures for efficient data organization.</p> <p>Naming files and folders using consistent and meaningful conventions.</p> <p>Transferring files between devices and within local or cloud storage systems.</p> <p>Uploading, sharing, and syncing files using cloud services.</p> <p>Setting up and maintaining basic</p>	<p>Learners will develop expertise in using Windows, Android, iOS, Linux, and MacOS for logistics-related tasks.</p> <p>Skilled in implementing best practices for file management, including organizing, naming, and securing files.</p> <p>Experienced in leveraging cloud storage solutions for real-time collaboration and file accessibility.</p> <p>Knowledgeable in identifying and mitigating file security risks and establishing reliable backup routines.</p>



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			solutions to manage and share files efficiently. Implement basic file security measures and perform regular backups to safeguard data.		security measures for files. Performing backups both locally and to cloud storage.	



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BLA	Module 2 - Basic Software Application and Communication Tools	Module 2.1 - Digital Collaboration Tools	The learner will be able to: Understand the use of tools for collaborative projects. Know the basics of Google Workspace and Microsoft Teams. Recognise the benefits of using digital collaboration tools.	The learner will identify core Google Workspace and Microsoft Teams features, including Gmail, Drive, Docs, Calendar, and Teams' Channels, Files, and Task Management. The learner will describe best practices for secure file sharing, team collaboration, and efficient communication in virtual work environments.	The learner will efficiently use digital tool such as Gmail, Google Drive, Docs, Sheets, Calendar, and Teams' communication and file-sharing features. The learner will also plan, arrange tasks, and review project progress across both platforms as well as operate virtual meetings, and interact clearly in teams and channels.	The learner will: <ul style="list-style-type: none"> <li>- collaborate, using both Google Workspace and Microsoft Teams for seamless teamwork;</li> <li>- ensure data security, managing permissions and securing files in collaborative projects;</li> <li>- carry out workflow optimization, integrating apps and customizing tools to streamline productivity in digital settings.</li> </ul>
		Module 2.2 - Digital Communication Platforms	The learner will Understand video conferencing and chat engines as essential tools for professional communication. Use platforms like Zoom, Teams, Slack, and WhatsApp effectively. Apply professional etiquette for virtual and chat-based communication. Enhance productivity, security, and collaboration using these tools.	The learner will describe key features of video conferencing and chat platforms and etiquette for virtual communication and chat interactions. The learner will recognise security practices to protect sensitive information and the role of the digital communication tools in hybrid and remote work settings.	The learner will develop skills to set up and manage video calls and chat tools for collaboration and use advanced features like screen sharing, message threading, and integrations. The learning will develop skills also to troubleshoot common technical issues and conduct professional and secure virtual meetings and chats.	The learner will demonstrate competence in professional and efficient communication in virtual environments and effective use of video and chat tools for team collaboration. The learner will also demonstrate competence in awareness of security measures to safeguard communication and adaptability to diverse platforms for different professional contexts.
		Module 2.3 - Word Processing, Spreadsheets and Presentation Tools	The learner will be able to: Understand the use of tools for word processing, spreadsheets and presentation; Know the basics of MS Word, MS Excel and MS PowerPoint; Recognise the benefits of	The learner will identify core features of Microsoft tools for word processing, spreadsheets and presentation, including MS Word, MS Excel, and MS PowerPoint. The learner will describe best practices for formatting and document management in word processing tools, data organization, formulas, functions,	The learner will efficiently use digital tool such as MS Word, MS Excel, and MS PowerPoint. The learner will also produce documents with styles and references, perform data analysis with formulas and charts, design visually appealing slides and deliver presentations confidently.	The learner will: Ensure proficiency in 365 tools for document creation, data analysis, and presentations. Carry out problem-solving using digital tools for reporting, analysis, and communication.

			using digital tools for word processing, spreadsheets and presentation.	and data visualization with charts in spreadsheets tools, and slide design, animations, and multimedia in presentation tools.		
		Module 2.4 – Email and Digital Communication	The learner will: Understand email’s purpose and structure. Set up and manage email accounts. Apply professional email etiquette. Use tools like Outlook and Gmail effectively. Enhance productivity and ensure email security.	The learner will be able to identify email components (Subject, Bcc, Cc), create and secure email account. The learner will be able to describe features of platforms like Gmail and Outlook and email etiquette for clear communication. And lastly, the learner will have basic understanding of security best practices, such as avoiding phishing.	The learner will develop skills to efficiently set up, navigate, and organize email accounts. The learner will also have the skill to use filters, labels, and rules to manage inboxes as well as recognize and handle email threats securely.	The learner will demonstrate competence in: Professional communication via email. Effective management of email tools and accounts. Secure handling of sensitive information. Productive and organized email practices.
		Module 2.5 – Social Media for Logistics	The learner will: Understand the core features and purposes of LinkedIn, Facebook, Instagram, and other relevant digital platforms. Use digital platforms effectively to build a professional network and personal brand. Apply professional communication strategies in online interactions. Develop a secure and professional online presence.	The learner will gain knowledge about: The functionalities of LinkedIn, Facebook, Instagram, and other platforms. The role of these platforms in networking, branding, and career development. Effective practices for professional communication and interaction online. Security and privacy requirements for maintaining a professional digital presence.	The learner will develop skills to: Create and optimize professional profiles on LinkedIn, Facebook, and Instagram. Engage meaningfully with online communities and industry groups. Create and manage content to build a consistent personal brand. Use analytics and feedback for improving online engagement.	The learner will demonstrate competence in: Navigating and utilizing digital platforms for networking and professional development. Maintaining professionalism in all forms of online communication. Building and sustaining a secure and reputable online presence. Adapting to evolving digital trends and tools to stay relevant in professional contexts.



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STHEV	Module 3 - Data Security and Privacy	Module 3.1 Understanding Cybersecurity	By the end of this submodule, learners will be able to: Explain key concepts, including data protection, privacy, and system integrity. Identify and describe various threats such as malware, phishing, ransomware, and insider risks. Understand and assess common methods used in cyberattacks. Analyze the financial, reputational, and operational effects of cyberattacks on individuals and organizations.	Understanding the basic concepts of cybersecurity and its importance in protecting data and systems. Knowledge of various types of cybersecurity threats and attacks, as well as the techniques used by attackers. Understanding the significance of protection and mitigation strategies, and the impact of cyberattacks on organizations and individuals.	Ability to identify and assess cybersecurity risks and detect vulnerabilities in systems. Development of skills to apply protective measures and techniques to securely manage systems and data. Proficiency in threat detection and the development of strategies to prevent or respond to cyberattacks.	Ability to develop and implement policies and strategies to protect against cyber threats. Competence in managing security incidents and recovering systems after a cyberattack.
		Module 3.2 Malware (Malicious Software) and Scam	By the end of this submodule, learners will be able to: Define malware and explain its types. Understand how malware spreads and recognize signs of infection. Detect and remove malware. Define scams and recognize scam techniques. Apply protection and prevention measures against malware and scams. Respond effectively to a malware or scam attack.	Understanding the types of malware and how it spreads. Knowledge of common scam methods and signs of fraud. Awareness of protection and prevention measures.	Detecting and removing malware. Recognizing scams and applying protective measures. Managing malware or scam incidents effectively.	Ability to detect and remove malware from systems. Ability to identify and avoid scams. Competence in handling cyberattacks and system recovery.

		Module 3.3 Password Management	By the end of this submodule, learners will be able to: Understand the importance of password management. Create strong passwords and implement MFA. Use password managers for secure storage. Implement multi-factor authentication (MFA).	Knowledge of strong password characteristics. Knowledge of different authentication methods. Understand how MFA works. Knowledge of secure password guidelines.	Create strong and secure passwords. Use password management tools effectively. Evaluate and apply authentication methods. Implement multi-factor authentication.	Apply best security practices. Address threats from password reuse. Use MFA to enhance security. Manage passwords across multiple devices/services.
		Module 3.4 Data Privacy	By the end of this submodule, learners will be able to: Understand the concept and importance of data privacy. Identify best practices for data privacy and their benefits. Analyze the risks and consequences of poor data privacy measures. Apply data privacy knowledge to real-life scenarios.	Definitions of personal and professional data privacy. Key principles of data privacy laws and regulations. Common data privacy best practices. Risks associated with insufficient data protection.	Implement data privacy measures in personal and professional contexts. Identify vulnerabilities and mitigate risks related to data privacy. Utilize tools and techniques to ensure compliance with privacy standards. Communicate the importance of data privacy effectively.	Manage personal and professional data responsibly. Ensure compliance with data privacy laws and organizational policies. Promote a culture of awareness and accountability for data privacy. Adapt data privacy strategies to changes in technology and regulations.
		Module 3.5 Safe Internet Practices	By the end of this submodule, learners will be able to: Understanding the basic principles of safe internet browsing. Developing strategies for recognizing and avoiding fake news and hoaxes. Learning the importance of software updates and data backups. Applying safe practices to protect privacy and security online.	Knowledge of safe browsing principles. Understanding different types of software updates and their importance. Knowledge of data backup options. Understanding fake news and how to recognize and avoid it.	Ability to browse the internet securely. Skill in identifying and avoiding online threats and risks. Ability to perform software updates and create data backups. Skill in evaluating the credibility of information and avoiding fake news.	Competence in applying safe browsing practices. Competence in managing software updates and creating backups. Ability to recognize and avoid fake news and hoaxes. Autonomy in applying strategies for personal data protection online.



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CETRI	Modul 4: Specialized Logistics Software	Module 4.1: Order Management Systems (OMS)	<p>By completing this module, learners will:</p> <p>Understand the core components of an Order Management System (OMS), including order entry, inventory control, and customer communication. Comprehend the key functions of OMS in logistics, such as shipment tracking and return management. Learn how OMS enhances efficiency, reduces errors, and increases operational visibility. Gain proficiency in basic navigation and dashboard features of an OMS. Develop skills in creating and modifying orders within the system. Learn to maintain data accuracy in order entry and processing. Understand real-time inventory management and stock reordering processes. Appreciate the benefits of OMS implementation, such as time efficiency and improved customer satisfaction. Identify the challenges of integrating OMS with other systems and ensuring data security. Apply knowledge to make data-driven decisions in logistics operations.</p>	<p>Learners will acquire a comprehensive understanding of Order Management Systems (OMS) and their significance in modern logistics. They will explore OMS functionalities, including real-time inventory tracking, automated order processing, and customer communication, and how these contribute to operational efficiency and customer satisfaction. Practical knowledge of system navigation, data entry, and integration challenges will enable learners to effectively manage orders and optimize logistics workflows.</p>		



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			<p>Modul 4.2: Transportation Management Systems (TMS)</p>	<p>By the end of the TMS module, participants will be able to:</p> <p>Define Transportation Management Systems (TMS) and explain their role in logistics. Understand the purpose of TMS in planning, executing, and optimizing transportation operations.</p> <p>Navigate TMS features such as routing, carrier selection, and real-time shipment tracking. Recognize the benefits of TMS, including cost efficiency, reduced delays, and improved customer satisfaction.</p> <p>Analyze key metrics tracked by TMS, such as delivery performance and freight cost optimization. Address challenges in TMS implementation, including system integration and user training. Leverage TMS tools like route optimization and load consolidation to enhance efficiency. Explore real-world applications of TMS to understand their impact on global transportation.</p> <p>Ensure compliance with regulatory and legal requirements using TMS functionalities. Anticipate future trends in TMS, such as AI-driven analytics, IoT-enabled tracking, and autonomous vehicle integration.</p>	<p>Participants will gain a thorough understanding of Transportation Management Systems (TMS) and their role in optimizing transportation operations. This module covers TMS functionalities, benefits, and challenges, equipping learners with the tools to enhance route planning, shipment tracking, and carrier management. Practical insights and discussions on emerging trends will enable participants to leverage TMS to streamline logistics, reduce costs, and improve customer satisfaction.</p>		
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		<p>Modul 4.3: Warehouse Management Systems (WMS)</p>	<p>By completing this unit learners will:</p> <p>Understand the purpose and core functionalities of a Warehouse Management System (WMS).</p> <p>Explain the importance of WMS in inventory control and warehouse operations.</p> <p>Navigate and use key WMS features, including stock monitoring, order picking, and inventory updates.</p> <p>Identify the key benefits of WMS, such as improved accuracy, storage optimization, and reduced labor costs. Evaluate the challenges of WMS implementation, including integration with existing systems and training needs.</p> <p>Interpret key metrics tracked by WMS, such as inventory turnover and order accuracy.</p> <p>Utilize advanced WMS features like slotting optimization and forecasting tools for better efficiency.</p> <p>Explore real-world case studies to understand the impact of WMS on warehouse performance.</p> <p>Discuss how WMS contributes to sustainability by reducing waste and optimizing resources.</p> <p>Predict future trends in WMS, including AI integration, IoT advancements, and robotics.</p>	<p>Participants will acquire a comprehensive understanding of Warehouse Management Systems (WMS) and their critical role in modern logistics operations. They will learn how WMS supports efficient inventory control, optimizes warehouse workflows, and enhances overall productivity. By exploring key functionalities, benefits, challenges, and real-world applications, learners will gain the practical knowledge needed to implement and leverage WMS tools effectively in their organizations.</p>		
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			<p>Module 4.4: Customer Relationship Management (CRM)</p>	<p>By the end of the unit, participants will be able to:          Define Customer Relationship Management (CRM) and explain its role in logistics operations.          Understand the importance of CRM in managing and maintaining strong customer relationships.          Navigate and utilize CRM features such as customer profiles, communication tracking, and data analysis.          Recognize the benefits of CRM, including improved customer satisfaction, retention, and streamlined processes. Analyze customer interactions to provide personalized service and meet customer expectations.          Identify key metrics tracked in CRM, such as customer satisfaction scores (CSAT) and customer retention rates. Evaluate the challenges of CRM implementation, including data integration and user adoption. Leverage CRM automation tools like email campaigns and feedback collection to enhance efficiency. Explore real-world CRM applications in logistics to improve communication and service delivery. Anticipate future trends in CRM, such as predictive analytics, voice-activated tools, and blockchain for data security.</p>	<p>Participants will gain an in-depth understanding of how Customer Relationship Management (CRM) systems empower logistics teams to enhance customer interactions and satisfaction. The module covers CRM functionalities, benefits, and challenges, equipping learners with the tools to streamline communication, analyze customer data, and foster loyalty. Real-world examples and future trends will provide actionable insights for leveraging CRM to achieve business success.</p>		
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			<p>Module 4.5: Supplier Relationship Management (SRM) Systems</p>	<p>By the end of the unit, participants will be able to:</p> <ul style="list-style-type: none"> <li>Define Supplier Relationship Management (SRM) and its importance in logistics operations.</li> <li>Understand the purpose of SRM in managing supplier performance, contracts, and relationships.</li> <li>Navigate SRM tools for communication, supplier evaluation, and performance tracking.</li> <li>Recognize the benefits of SRM, including improved supplier quality and streamlined collaboration.</li> <li>Analyze key supplier metrics, such as on-time delivery rates and cost performance. Address challenges in SRM implementation, such as data management and supplier resistance.</li> <li>Leverage SRM features like automated contract management and risk monitoring. Explore the role of SRM in strategic sourcing to optimize supplier selection and cost efficiency. Ensure compliance with legal and sustainability standards through SRM tools.</li> <li>Anticipate future trends in SRM, such as blockchain integration and AI-driven supplier recommendations.</li> </ul>	<p>Participants will gain a clear understanding of how Supplier Relationship Management (SRM) systems strengthen supplier partnerships and enhance supply chain performance. This module covers SRM functionalities, benefits, and challenges, equipping learners with the skills to evaluate suppliers, manage contracts, and improve collaboration. Practical examples and insights into future trends will help participants use SRM to ensure supply chain reliability and efficiency.</p>		
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		<p>Module 4.6: Yard Management Systems (YMS)</p>	<p>By the End of the Unit, participants will be able to:          Define Yard Management Systems (YMS) and explain their role in logistics operations. Understand the purpose of YMS in managing vehicle movements and cargo flow within the yard. Navigate YMS tools for tracking inbound and outbound vehicles and scheduling dock assignments.          Recognize the benefits of YMS, including reduced congestion, improved efficiency, and real-time visibility. Identify key metrics tracked by YMS, such as truck turnaround time and dock utilization rates. Evaluate the challenges of implementing YMS, including infrastructure requirements and training needs. Leverage YMS features like automated gate systems and dynamic scheduling to streamline yard operations. Explore how YMS enhances safety through vehicle tracking and hazard alerts. Examine real-world YMS applications to understand their impact on yard efficiency. Anticipate future trends in YMS, such as IoT integration, AI-powered dock management, and autonomous vehicle coordination.</p>	<p>Participants will develop a comprehensive understanding of Yard Management Systems (YMS) and their role in optimizing yard operations. The module covers YMS functionalities, benefits, and challenges, equipping learners to improve vehicle flow, minimize congestion, and enhance safety within the yard. Through practical examples and discussions on emerging trends, learners will gain the skills to implement and utilize YMS tools effectively to maximize operational efficiency.</p>		
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RMR	Module 5: Emerging Technologies in Logistics	Module 5.1: Introduction to IOT-Devices	Understand IoT concepts and logistics applications Address IoT security concerns	IoT basics: components, functions, and uses Awareness of IoT security risks	Identify IoT applications in logistics Recognize vulnerabilities	The learner will be able to : Recommend IoT solutions for operations. Ensure secure IoT deployment.
		Module 5.2: Automation and AI	The Learner Will Be Able To: Understand Automation And AI In Logistics Evaluate Ethical AI Implementation	The Learner Will Identify: Basics Of Automation And AI Tools Ethical Concerns And Job Impacts	The Learner Will Efficiently: Identify Automation Opportunities Assess AI Risks	The Learner Will: Recommend Tools For Efficiency Gains. Design Responsible AI Solutions.
		Module 5.3 - Barcodes and RFID	The Learner Will Be Able To: Understand barcode and RFID systems Apply RFID for inventory optimization	The Learner Will Identify: Basics of barcode and RFID technology RFID applications in inventory management	The Learner Will Efficiently: Compare barcode and RFID solutions Set up RFID systems	The Learner Will: Manage their implementation in logistics. Improve inventory accuracy with RFID.
		Module 5.4 - Predictive Analytics	The Learner Will Be Able To: Understand predictive analytics in logistics. Analyze logistics data sources. Address challenges and explore future trends	The Learner Will Identify: Basics of predictive analytics tools, such as machine learning and statistical models. Knowledge of diverse data sources used in predictive analytics. Awareness of challenges and emerging trends in predictive analytics.	The Learner Will Efficiently: Ability to use predictive tools for demand forecasting and route optimization. Ability to interpret data and apply predictive models for forecasting and maintenance. Ability to propose strategies to overcome barriers to implementation.	The Learner Will be able to: integrate predictive analytics in decision-making for logistics operations. Make data-driven decisions that enhance operational efficiency. Lead innovation in predictive analytics adoption within logistics organizations.



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Prenner & Partner	Module 6 - Data tracking and analysis	Module 6.1 - Electronic Data Interchange (EDI)	<p>The learner is able to,</p> <p>Know the basics of electronic data interchange (EDI). Know the benefits of implementing EDI in logistics. Knowing the implementation of EDI in logistics. Know the challenges of implementing EDI. Knowing future developments and trends.</p>	<p>The learner recognises that data tracking and analysis are essential in today's logistics. He recognises that EDI has numerous advantages. And they recognise that the implementation of EDI requires careful planning and preparation.</p>		<p>The learner is able to contribute to increasing efficiency, reducing costs and improving service quality by using GPS technologies in logistics. Examples are Real-time tracking of vehicles, Consignment tracking, Fleet management</p>
		Module 6.2 - GPS technologies	<p>The learner is able to,</p> <p>Know the basics of GPS technology.</p> <p>To know the application of GPS in logistics.</p> <p>Recognising the benefits of GPS technologies in Logistics.</p> <p>Understanding the challenges of implementing GPS technologies in Logistics.</p> <p>Recognising the future of GPS technology in logistics</p>	<p>The learner recognises that GPS technologies in logistics bring a variety of benefits. The learner recognises that the future of GPS technologies in logistics is promising, especially with the integration of new technologies such as IoT, AI and autonomous systems.</p>		
		Module 6.3 - Data tracking tools	<p>The learner is able to,</p> <p>Know the basics of data tracking tools. Know the areas of application</p> <p>Recognising the benefits of data tracking tools.</p> <p>Knowing the challenges of implementation.</p> <p>Knowing the trends of the future.</p>	<p>The learner recognises that data tracking tools are an indispensable tool for companies that want to be successful in an increasingly digital and globalised economy. The learner recognises that with emerging trends such as AI, blockchain and 5G, the importance of data tracking tools will continue to increase in the future.</p>		

		<p>Module 6.4 - Big data and blockchain</p>	<p>The learner is able to, recognise what big data is Know the basics of blockchain. Understanding the integration of big data and blockchain in logistics. Knowing the benefits of big data and blockchain. Knowing the challenges of implementation.</p>	<p>The learner recognises that big data and blockchain are two key technologies that will shape the future of data tracking and analysis in logistics.</p>		
		<p>Module 6.5 - Artificial intelligence and machine learning</p>	<p>The learner is able to, Know the basics of artificial intelligence (AI) and machine learning. Knowing the use of AI for professional purposes. Knowing the applications of AI in the field of logistics. Know the concept of machine learning. Knowing the challenges of AI and human learning. Knowing the future developments and trends.</p>	<p>The learner recognises that artificial intelligence (AI) and machine learning are the central technologies for modern data tracking and analysis. They recognise that they offer the logistics industry enormous opportunities to optimise processes, reduce costs and develop new services.</p>	<p>The learner can achieve optimisation and increased efficiency through the use of artificial intelligence in logistics. Examples are For route planning (AI can analyse historical traffic data, real-time traffic information and weather conditions to calculate the most efficient routes for deliveries in real time. Forecasting and demand planning (AI can recognise complex patterns in sales data, market news and other relevant data sources to create more accurate forecasts of product demand.</p>	<p>By using AI in logistics, the learner is able to significantly increase efficiency, reduce costs, automate processes, make accurate predictions and make the entire supply chain more agile and resilient.</p>



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COS	Module 7 - Continuous Learning and Development	<p>Module 7.1 - Keeping up with Technological Changes</p> <p>Module 7.2 - Professional Development</p> <p>Module 7.3 - Mentorship and Knowledge Sharing</p>	<p>The learner is able to,</p> <p>Apply selected strategies for keeping up with technological change.</p> <p>Knows what continuous learning and development is.</p> <p>Knows how to keep up with technological change.</p> <p>Knows resources for keeping up to date with technological change</p> <p>The learner is able to:</p> <p>Apply selected career development tools.</p> <p>Knows what networking is.</p> <p>Knows effective networking strategies .</p> <p>Knows the importance of training activities and certifications.</p> <p>Knows the role of professional organisations.</p> <p>The learner is able to:</p> <p>Knows what mentoring is.</p> <p>Knows what to keep in mind when mentoring.</p> <p>Knows what mentoring objectives and strategies are .</p> <p>Understands the importance of knowledge sharing in an organization.</p> <p>Knows what feedback is.</p>	<p>The learner recognises that technological change is a key driver of modern society and one of the most important strategies for keeping up with technological change is lifelong learning. The learner recognises of resources to keep up to date with new technologies.</p> <p>The learner recognises that career development is an ongoing process and networking is a skill that can be developed and improved throughout life. The learner understands the role and importance of training, certifications and the role of professional organisations.</p> <p>The learner recognises the role and importance of mentoring in the continuous learning process. He/she is aware of the necessity to share knowledge and give correct feedback</p>		



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		Module 7.4 - Staying Informed through Media and Publications	The learner is able to, Knows how to be informed through the media and publications. Knows how to verify information.	The learner recognises that being up to date requires a proactive and focused approach		
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PARTNERS	MODULES	TOPICS / UNITS OF LEARNING	LEARNING OUTCOMES	KNOWLEDGE	SKILLS	COMPETENCE
CESUR	Module 8 - Sustainability in Logistics	Module 8.1 – Introduction to Sustainability	By the end of the module, learners will: Understand sustainability principles and their relevance in logistics. Identify strategies to minimize environmental impact through sustainable practices. Analyze case studies demonstrating effective sustainability measures in logistics operations.	Students will acquire knowledge on the following concepts: Concepts of Sustainability: Definition and the three pillars: environmental, social, and economic sustainability. Global challenges like climate change, resource depletion, and pollution. Logistics Sector Impact: Environmental footprint from transport and operations. Importance of regulatory compliance and innovation in green logistics. Practical Strategies: Resource optimization (energy, water, supply chain, and product design). Waste management and sustainable sourcing techniques.	Evaluate logistics operations to identify opportunities for sustainability. Apply sustainability principles to design and improve processes. Use data and technology for resource monitoring, waste reduction, and efficiency improvements.	The learner is able to contribute to increasing efficiency. Leadership in implementing and promoting sustainable logistics initiatives. Advanced understanding of green technologies and regulatory compliance. Strategic planning for integrating sustainability into long-term business goals.
		Module 8.2 - Importance of Sustainability in Logistics	<i>The learner is able to,</i> Understand the concept of sustainability in logistics and its importance for efficiency and cost savings. Identify strategies for optimizing resources in logistics, including route planning, scheduling, and shipment consolidation. Analyze energy-saving measures in logistics operations, focusing on alternative fuels, renewable energy, and energy management systems. Evaluate the impact of reducing empty runs in logistics on fuel consumption and emissions.	Participants will learn about: Sustainable logistics principles, including the reduction of waste and conservation of energy. Different logistics processes, such as transportation, warehousing, packaging, and distribution, and their associated resource consumption. Technologies used for route optimization and efficient resource use. Various energy-saving practices in logistics, including alternative fuels, energy-efficient warehouse technologies, and renewable energy sources. The concept of "empty runs" and the strategies to minimize them, such as load coordination and shared transportation networks.	Ability to apply route optimization software and other technologies to plan efficient logistics routes. Capacity to implement energy-saving practices in logistics operations, including the use of alternative fuels and energy-efficient systems. Ability to coordinate transportation loads and reduce empty runs to maximize resource utilization. Skill in assessing logistics processes for inefficiencies and proposing sustainability improvements.	The learner is able to contribute to increasing efficiency. Expertise in sustainable logistics practices and their application to real-world logistics operations. Deep understanding of how energy management and resource optimization contribute to both environmental sustainability and cost efficiency in logistics. Proficiency in using technology for route optimization and resource planning. Advanced knowledge of industry trends in alternative fuels, renewable energy, and waste reduction in logistics.



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		<p>Module 8.3 – The 3R Concept: Reduce, Reuse, Recycle</p>	<p><b>Learning Outcomes</b> By the end of the module, learners will: Grasp the 3R principles and their relevance to sustainable logistics. Identify ways to implement reducing, reusing, and recycling practices in supply chains. Explore strategies to integrate the 3R framework effectively..</p>	<p>Learners will gain insights into: Core definitions of Reduce, Reuse, and Recycle in logistics. Reduction methods: inventory optimization, sustainable packaging, energy-efficient systems. Applications of reusable systems: pallets, crates, and refurbished materials. Recycling initiatives: processing waste materials, industrial innovations, and partnerships.</p>	<p>Learners will develop the ability to: Analyze logistics processes to identify sustainability gaps. Design workflows that emphasize reusable and recyclable practices. Collaborate with partners to implement 3R initiatives. Solve challenges related to adopting sustainable logistics methods.</p>	<p>Learners will be proficient in: Integrating 3R principles into supply chain management. Managing logistics to reduce consumes. Utilizing technology for sustainability optimization. Leading environmental compliance initiatives within logistics.</p>
		<p>Module 8.4 - Future Trends in Sustainable Logistics</p>	<p>By the end of this module, learners will: Identify key trends such as green vehicles, automation, and circular economy practices in sustainable logistics. Understand the role of renewable energy and technology in reducing environmental impact. Apply urban logistics solutions like micro-hubs and eco-friendly delivery methods.</p>	<p>Learners will gain insights into: Green vehicles, alternative fuels, and automation in logistics. Data-driven tools (IoT, big data) for optimization. Circular economy and sustainable packaging practices. Renewable energy.</p>	<p>Learners will develop the ability to: Implement sustainable logistics practices using new technologies. Optimize processes like route planning and resource sharing. Apply eco-friendly solutions to urban and last-mile deliveries.</p>	<p>Learners will be proficient in: Evaluating and adopting green logistics technologies. Managing sustainable operations using advanced tools and renewable energy. Planning effective, sustainable urban logistics strategies.</p>



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