



APICS CERTIFIED IN LOGISTICS, TRANSPORTATION AND DISTRIBUTION (CLTD) 2024 to 2025 Change Document

The 2025 APICS CLTD Learning System has been updated with minor changes.

APICS CLTD 2024 Content	APICS CLTD 2025 Content	
Book Breakdown	2 Books (598 & 614 pages respectively)	
Module and Section Breakdown	Module 1: Logistics Overview and Strategy Sections A - F	Module 1: Logistics Fundamentals and Strategy Sections A – C
	Module 2: Logistics Network Design Sections A - B	Module 2: Demand Management and Supply (Capacity Management) Sections A - G
	Module 3: Sustainability and Reverse Logistics Sections A-B	Module 3: Customer and Order Management Sections A - B
	Module 4: Capacity Planning and Demand Management Sections A-F	Module 4: Warehouse Distribution/Fulfillment Center Management Sections A - E
	Module 5: Order Management Sections A - B	Module 5: Inventory Management Sections A - B
	Module 6: Inventory Management Sections A - B	Module 6: Transportation Management Sections A - H
	Module 7: Warehouse Management Sections A – E	Module 7: Global Logistics Sections A - D
	Module 8: Transportation Sections A - D	Module 8: Sustainability, Reverse Logistics, and Risk Management Sections A - C
	Module 9: Global Logistics Considerations Sections A - D	Module 9: Logistics Framework, Metrics, Network Design, Transformation, and Improvement Sections A - D
Content, Quizzes, and Slides	The content has been moved and revised as listed below.	



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Where is the content?

The following outline identifies the content within the new 2025 Learning System in the right column. The location of the 2024 learning system is listed on the left. Moves and changes are indicated in the 2025 column.

APICS CLTD 2024 Learning System Content	APICS CLTD 2025 Learning System Content
MODULE 1: LOGISTICS OVERVIEW AND STRATEGY	Module 1: Logistics Fundamentals and Strategy
Section A: Logistics Fundamentals	Section A: Recognize Logistics Fundamentals
Topic 1: Logistics History, Definitions, and Scope	Understand Logistics History, Definitions, and Scope <ul style="list-style-type: none">History of logistics: 1990s content: Added content on power shift toward big retailers.History of logistics: 2000s and 2010s: Added content on grocery home delivery.History of logistics: Added 2020s content.Scope of logistics: Added content on reverse logistics (including salvage, scrap, and product disposition decisions).The following test items were revised:<ul style="list-style-type: none">ASCM1000
Topic 2: Total Cost Concept and Tradeoffs	Recognize Total Cost Concept and Tradeoffs <ul style="list-style-type: none">Systems or Total Cost Concept: Local Delivery Costs: Added new Milk Run graphic and new content.Systems or Total Cost Concept: Distribution Center Costs: Changed from Distribution Center Storage CostsSystems or Total Cost Concept: Additional Costs: Added Engineer-to-order (ETO) bulletTradeoffs: Tradeoffs in Scope Areas: Logistics Area Tradeoffs table: Removed available-to-promise (ATP) in Customer managementTradeoffs: Tradeoffs with Other Stakeholders: Added new contentTradeoffs: Tradeoffs with other stakeholders: 4Ps table: In the "Product" area of the table, added content about new product introductions. In the "Price" area of the table, added content on a discount schedule and the impact of volume requirements.



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APICS CLTD 2024 Learning System Content	APICS CLTD 2025 Learning System Content
	<ul style="list-style-type: none">The following test items were revised:<ul style="list-style-type: none">ASCM1010ASCM1011ASCM1012ASCM1016ASCM1017ASCM1020
Topic 3: Principles, Components, and Drivers of Logistics	<p>Consider Principles, Components, and Drivers of Logistics</p> <ul style="list-style-type: none">Facilitating Flow of Goods/Services, Information, and Funds: Replaced Flows of Information, Cash, Strategic Requirements, and Materials/Services graphic with one that shows strategic requirements.Facilitating Flow...: Information Flows: Added discussion of demand flows and of keeping logistics service providers in the loop.Facilitating Flow...: Added new section: Strategic Requirement Flows.Facilitating Flow...: Product/Service Flows: Replaced Direct-to-Consumer Permutations graphic with updated Order Channels and Distribution Strategies graphic.Facilitating Flow...: Reverse Flows: Added content on third party that specializes in sorting and disposition.Utility Efficiency and Effectiveness: Added content under Place Utility.Utility Efficiency and Effectiveness: Added content under Form Utility.Components: Transportation: Added content.Components: Warehousing, Materials Handling, Packaging: Added content.Drivers: Customer Needs and Expectations: Added new bullets to list.Drivers: Schedule Compression: Added content.Drivers: Market Trends and Labor Shortages: Added content.Drivers: Complexity and Risk: Added content on outsourcingDrivers: Complexity and Risk: Added an example regarding COVID vaccines.Drivers: Technology: Changed supply chain digitization to digital transformation and added content on blockchain.



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	<ul style="list-style-type: none">The following test items were revised:<ul style="list-style-type: none">ASCM1021ASCM1022ASCM1027ASCM1028ASCM1032ASCM1033ASCM1034ASCM1035ASCM1036ASCM1037ASCM1038
Section B: The Role, Value, and Cost of Logistics	Section B: Discern the Role, Value, and Cost of Logistics
Topic 1: Supply Chain Management and the Role of Logistics	<p>Understand Logistics in a Supply Chain Management Context</p> <ul style="list-style-type: none">Distinctions Between SCM and Logistics: Added content on COVID-19.Levels of Maturity: Replaced the discussion with a more up-to-date version that now features 5 maturity stages instead of 4. Moved two contents from prior version to end and titled Logistics Maturity.Economic Impact of Logistics: Economic Impact of Utility: Added content.Effects of Globalization, E-commerce, and Technology: Added Technology to header.Effects of Globalization, E-commerce, and Technology: Globalization: Updated statistics; Added content on the U.S. China trade war.Effects of Globalization, E-commerce, and Technology: E-commerce: Updated statistics; Added Content.Effects of Globalization, E-commerce, and Technology: Added new Technology section.Added new topic on Relationship Between Sales and Operations Planning (S&OP) and Logistics and Distribution.Added new topic on Sustainability Objectives.Added new topic on Enabling Resilience.The following test items were revised:<ul style="list-style-type: none">ASCM1039ASCM1040ASCM1042



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APICS CLTD 2024 Learning System Content	APICS CLTD 2025 Learning System Content
	<ul style="list-style-type: none">○ ASCM1049
Topic 2: The Value of Logistics Management	<p>Discern The Value of Logistics Management</p> <ul style="list-style-type: none">• Creating Competitive Advantage: Added content on Increasing Customer Focus and moved the contents of Increasing Customer Satisfaction to here. Revised the priority list to be SCOR DS list and added some additional operationalized customer segments.• Effectively Managing Transportation, Labor, and Inventory Costs: Header changed from Reducing Transportation, Labor, and Inventory Costs and content added.• Added new topic on Contributing to Environmental, Social, and Governance (ESG).• The following test items were revised:<ul style="list-style-type: none">○ ASCM1053
Topic 3: Logistics Costing	<p>Effectively Manage Logistics Costs</p> <ul style="list-style-type: none">• The following test items were revised:<ul style="list-style-type: none">○ ASCM1055○ ASCM1056○ ASCM1059○ ASCM1061○ ASCM1063
Section C: Logistics Strategy within the Supply Chain	Section C: Develop Logistics Strategy within the Supply Chain
Topic 1: Goals and Objectives	<p>Set and Align Logistics Strategy, Goals, and Objectives</p> <ul style="list-style-type: none">• Strategic, Tactical, and Operational Plans and Controls: Added new content about the business plan.• Added new topic on Logistics Strategy: Alignment with Corporate and Supply Chain Goals and Objectives.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1069○ ASCM1093○ ASCM1096



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Topic 2: Value Propositions and Cost and Service Optimization	<p>Identify Value Propositions and Cost and Service Optimization</p> <ul style="list-style-type: none">• Value Propositions: Added content.• Basic Logistics Categories: added new content on processes to communicate exceptions.• Warehousing, Inventory, and Transportation: Added content.• Labor and Technology: Technology: added discussions of people and processes and data quality initiatives.• Systems Perspective: TCO: Added impact of discount structures and handling different size shipments to TCO.• Make-or-Buy Cost Analysis: Total Cost of Ownership for Make-or-Buy: Changed header from “Landed Cost or Total Cost of Ownership” and removed reference of landed cost.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1071○ ASCM1075○ ASCM1077○ ASCM1082○ ASCM1083○ ASCM1084○ ASCM1085○ ASCM1086○ ASCM1088○ ASCM1089
Topic 3: Contracting and Budgeting	<p>Set Contracting Strategy</p> <ul style="list-style-type: none">• Cash Budgets and Setting Payment Terms Strategy: Moved to Module 7, Section D.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1090○ ASCM1092
Topic 4: Segmentation	<p>Apply Segmentation</p> <ul style="list-style-type: none">• Added new topic on Operationalize Customer Segmentation and moved some customer segmentation content to this new area.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1098○ ASCM1099



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APICS CLTD 2024 Learning System Content	APICS CLTD 2025 Learning System Content
	<ul style="list-style-type: none"> ○ ASCM1100 ○ ASCM1101
Topic 5: Product Life Cycles	<p>Incorporate Product Life Cycles</p> <ul style="list-style-type: none"> • Product Life-Cycle Management and Effect on Suppliers and Reverse Logistics: Added new Product Life Cycle Management section.
Section D: Logistics Framework	<p>Moved to Module 9: Logistics Framework, Metrics, Network Design, Transformation, and Improvement</p> <p>Section A: Design the Logistics Framework</p>
Topic 1: Organizational Design and Supply Chain Synchronization	<p>Moved to Module 9, Section A: Synchronize Supply Chain and Organizational Design</p> <ul style="list-style-type: none"> • Added new topic on Transformation of Structures and People • Logistics Organizational Structure: added Types of Structures header • Logistics Organizational Structure: Types of Structures: added process-oriented structure. • Logistics Organizational Structure: Types of Structures: added new network structure content. • Logistics Organizational Structure: added Centralization versus Decentralization header, table, and new content. • Operating Arrangements: Combined: added industrial firms have opposite profile for slow versus fast movers. • Operating Arrangements: Flexible: added content.
Topic 2: Logistics Relationships	<p>Moved to Module 9 Section A: Recognize Logistics Relationships and Interdependencies</p> <ul style="list-style-type: none"> • Logistics Service Provider (3PL and 4 PL) Perspective: added fifth-party logistics (5PL) • Added new discussion: External Logistics Interdependencies. • Types of Collaboration: Vertical Collaboration: changed header from Vertical Collaboration related to Inventory Planning; added new content to Vendor-Managed Inventory; and added Demand-Driven Methodology (DDM) • The following test items were revised:



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APICS CLTD 2024 Learning System Content	APICS CLTD 2025 Learning System Content
	<ul style="list-style-type: none"> ○ ASCM1117
Topic 3: Strategic Risk Management	Moved to Module 8, Section C, Consider Strategic Risk Management and added content.
Topic 4: Talent Acquisition and Management	<ul style="list-style-type: none"> • Moved to Module 4, Section A: Identify Warehouse Strategy, Ownership, and Roles. Added content about lack of executive and mid-level leadership for transformation.
Section E: Strategic Performance Management	Moved to Module 9, Section B: Coordinate Strategic Performance Management
Topic 1: Performance Management	<p>Manage Performance</p> <ul style="list-style-type: none"> • Measuring and Analyzing Performance: Tools: Added content on balanced scorecards. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1135 ○ ASCM1137 ○ ASCM1138
Topic 2: Key Performance Indicators (KPIs)	<p>Set Key Performance Indicators (KPIs)</p> <ul style="list-style-type: none"> • Key Performance Indicators, KPI Trees, and Integrated Measurement Models: Added Integrated Measurement Model section. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1144
Topic 3: SCOR Model	<p>Consider SCOR DS and Digital Capabilities Models</p> <ul style="list-style-type: none"> • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1146 ○ ASCM1147 ○ ASCM1153
Topic 4: Financial Performance Metrics and Benchmarking	<p>Use Financial Performance Metrics and Benchmarking</p> <ul style="list-style-type: none"> • Strategic Profit Model: Added content about owning fixed assets such as fleets or warehouses reducing ROA. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1167



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Section F: Reengineering and Continuous Improvement	Split and Moved to Module 9, Section D
Topic 1: Reengineering	<p>Moved to Module 9, Section D: Support Digital Transformation, Digital Transformation and Reengineering Road Map</p> <ul style="list-style-type: none"> Transforming Logistics Based on Supply and Demand: Added content about concept of being "too lean" given pandemic. Lean: Lean: Lean Objectives: Added content on how cross-docking is lean. The following test items were revised: <ul style="list-style-type: none"> ASCM1175 ASCM1179 ASCM1180 ASCM1184
Topic 2: Continuous Improvement	<p>Moved to Module 9, Section D: Coordinate Continuous Improvement</p> <ul style="list-style-type: none"> Value Stream Mapping: Added a new case study about truck bottleneck in yard. The following test items were revised: <ul style="list-style-type: none"> ASCM1192
MODULE 2: LOGISTICS NETWORK DESIGN	Moved to Module 9: Logistics Framework, Metrics, Network Design, Transformation, and Improvement
Section A: Facilities Planning and Network Design	Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design
Topic 1: Designing or Redesigning a Logistics Network	<p>Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design: Design or Redesign a Logistics Network</p> <ul style="list-style-type: none"> Logistics Network Design Process: Added the CTSC transformation road map (brief version). Form Project Team and Set Scope, Milestones, and Budget: Added content about executive rationale and sense of urgency. Identify Drivers for Change: Added content about market scanning and STEEPLE and SWOT Analyses. Added growth and downsizing mention. Understanding As-Is and Planning To-Be States: Added content.

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Topic 2: Methods for Entering Global Markets	<p>Moved to Module 7, Section C: Facilitate Export/Import, Customs Clearing, and Documentation: Consider Methods for Entering Global Markets</p> <ul style="list-style-type: none"> Exporting: Added content about binding agents to agent discussion. Exporting: Rewrote the Foreign Sales Corporations bullet because the previous type described no longer exists. Other Common Methods: Revised export trading companies and export management companies. Other Global Trading Arrangements: Added outsourcing as type of global trading arrangement. The following test items were revised: <ul style="list-style-type: none"> ASCM1220
Topic 3: Transportation Requirements and Network Size	<p>Split into Module 9, Section C: Facilitate Facilities Planning and Network Design: Evaluate Network and Transportation Requirements</p> <ul style="list-style-type: none"> Business Strategy, Objectives, and Customer Requirements: Added content on multiple supply chains being top decision. Business Strategy, Objectives, and Customer Requirements: Presenting Alternatives and Finalizing Strategy: Added content and Sample, Inc., First Draft of Prioritized Project Portfolio table. <p>Split into Module 9, Section C: Facilitate Facilities Planning and Network Design: Evaluate Facility Requirements</p> <ul style="list-style-type: none"> Type of Distribution Network: Added new content on types of distribution networks (types of supply chains with priorities). General Deployment Considerations and Factors: Updated oil prices to 2023. Updated China and Mexico labor rates to 2020. Access to Resources and Infrastructure: Moved local discussions to next topic and added some new examples.
Topic 4: Facility Location Decisions and Determining Facility Type	<p>Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design: Make Facility Number, Type, and Location Decisions</p>

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	<ul style="list-style-type: none"> Renamed topic to Make Facility Number, Type, and Location Decisions Moved Number of Warehouse Distribution/Fulfillment Centers and Determining Appropriate Facility Type to here. Number of Warehouse Distribution/Fulfillment Centers: added examples of box rapid deployment centers, and how individual organizations are trying to reduce number of warehouses with examples. Site-Specific Considerations: Renamed local considerations to Municipal Considerations and added industrial waste disposal example, need to evaluate structures that will be kept, difficulties in developing greenfield, and Nashville/Amazon incentive example. The following test items were revised: <ul style="list-style-type: none"> ASCM1231 ASCM1232 ASCM1233 ASCM1236 ASCM1238
Topic 5: Modeling Approaches	<p>Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design: Understand Different Network Modeling Approaches</p> <ul style="list-style-type: none"> Added new section: Modeling Basics and Prerequisites Analytics and Heuristics: Changed header from Heuristics; Added discussion of analytics Analytics and Heuristics: Center of Gravity: Added that software is available. Added example of center of gravity combined with simulation. Optimization: Added content on SAILS software. The following test items were revised: <ul style="list-style-type: none"> ASCM1239 ASCM1240
Topic 6: Network Design Performance Validation	<p>Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design: Validate Network Design Performance</p> <ul style="list-style-type: none"> Forecasting, Benchmarking, and Financial Performance Validation: Changed header from

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	<p>Forecasting, Benchmarking, and Costing and Financing.</p> <ul style="list-style-type: none"> Analytics: Added content on using SCOR DS for as-is and to-be and why. The following test items were revised: <ul style="list-style-type: none"> ASCM1252 ASCM1253 ASCM1254 ASCM1255 ASCM1256 ASCM1257 ASCM1258 ASCM1259 ASCM1260
Section B: Risk Management	Moved to Module 8, Section C: Incorporate Risk Management Principles
Topic 1: Logistics Risks and the Risk Management Process	<p>Split into Module 8, Section C: Incorporate Risk Management Principles: Identify Types of Risk</p> <ul style="list-style-type: none"> Intro area: Rationale for risk categories was added. Added new section on Risk Breakdown Structure Internal versus External Risks and Human-Induced versus Natural Risks: Content from supply risks, demand risks, and process risks were moved here. New content was also added. Transportation Risks: Incoterms were updated to 2020 and Class A insurance mentioned. Warehousing Risks: Added example of cold chain racking prerequisite. Added discussion of inventory risk and regulatory risk. Supplier Risks: Added this new discussion and moved supplier financial failure to here. Cost-Related Risks: Inventory Risks and Supply-Chain Inventory Financing Solutions: Added discussion of how manufacturing, wholesaling, and retail have different risk profiles for inventory financing. Visibility-Related Risks: Added this new discussion.

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	<p>Split into Module 8, Section C: Incorporate Risk Management Principles: Identify and Implement a Risk Management Process and Strategies</p> <ul style="list-style-type: none"> • Risk Management Process: Added discussion of how organization may have an operational risk team plus teams for more strategic-level risks. Added some examples of risks that would be high impact, high probability, etc. • Risk Management Strategies: Created this new header and moved risk responses (avoid, accept..) here. Added content on when each response is best. • Risk Response Examples: Visibility: Added discussion of control towers and freight visibility platforms. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1261 ○ ASCM1262 ○ ASCM1264 ○ ASCM1267 ○ ASCM1268 ○ ASCM1269 ○ ASCM1270
Topic 2: International Security Measures	<p>Split into Module 7, Section B: Incorporate Regulations into Global Logistics Processes: Understand and Adhere to Transportation Safety Regulations</p> <p>Split into Module 8, Section C: Incorporate Risk Management Principles: Identify and Use Security Measures for Mitigating Risk</p> <ul style="list-style-type: none"> • Cybersecurity Measures: Added this new discussion using material from other ASCM products and new content. Added NIST Cybersecurity Framework and updated it to 2.0 version 2024. • Physical Security: Added this new area and added new content, moved content on transportation and warehouse security to here. • Product Traceability and Configuration Management: Added this new area and moved some contents here from other ASCM products. • Blockchain Technology: Added this new area, using materials from other ASCM products • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1271 ○ ASCM1272

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	<ul style="list-style-type: none"> ○ ASCM1273 ○ ASCM1274 ○ ASCM1275
Topic 3: Business Continuity Planning	<p>Moved to Module 8, Section C: Incorporate Risk Management Principles: Conduct Business Continuity Planning</p> <ul style="list-style-type: none"> • Logistics Role in Business Continuity: Added content about threatcasting. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1283
Topic 4: Insurance	<p>Moved to Module 8, Section C: Incorporate Risk Management Principles: Transfer Risk Using Insurance</p> <ul style="list-style-type: none"> • Cargo Insurance: Updated discussion to Incoterms 2020 and Coverage A and Coverage C. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1286
MODULE 3: SUSTAINABILITY AND REVERSE LOGISTICS	Moved to Module 8: Sustainability, Reverse Logistics, and Risk Management
Section A: Sustainability	Moved to Module 8, Section A: Apply Sustainability Principles
Topic 1: Logistics Social Responsibility Considerations	<p>Moved to Module 8, Section A: Apply Sustainability Principles: Consider Elements of Sustainability and Logistics Social Responsibility</p> <ul style="list-style-type: none"> • Sustainability and Social Responsibility: Social Responsibility and Logistics: Added content including discussion on Process for Selecting and Implementing Frameworks and Guidelines for Sustainability and Social Responsibility. • Triple Bottom Line: Added content about economic perspective being wider than just internal such as for whole supply chain. • United Nations Global Compact and Sustainable Development Goals: Added United Nations Sustainable Development Goals. • GRI Standards: Updated GRI Standards to 2021 version including new category of sector-specific standards, a new GRI 101

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	<p>(biodiversity) and several changes to the topic specific standards.</p> <ul style="list-style-type: none"> • ISO Standards: Added content. • Added new topics: Social Accountability International SA8000 Guidelines and ASCM Enterprise Standards for Sustainability and Other Models • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1292 ○ ASCM1297 ○ ASCM1309 ○ ASCM1310 ○ ASCM1311
Topic 2: Sustainability in the Supply Chain	<p>Moved to Module 8, Section A: Apply Sustainability Principles: Support Sustainability in the Supply Chain</p> <ul style="list-style-type: none"> • Carbon Footprint Measurements and Offsets: Updated emissions gap report to 2023 version, updated EPA statistics, and added average emissions per mode. • Sustainability Initiatives: Intro and Packaging: Updated Johnson & Johnson Health for Humanity report to 2022 version, Updated Staples sustainability example. Added Coca Cola sustainability example. • Sustainability Initiatives: Warehousing: Updated lighting and water sustainability bullets. Added more on LEED including REI example. • Sustainability Initiatives: Transportation: Added green shipping corridors. • Sustainability Initiatives: Fuel Consumption: Updated EPA Smart Way discussion. Added off-peak delivery discussion. Updated electric semis discussion. • Supplier Selection and Pricing Initiatives: Added chain of custody and concept of whole supply chains competing on sustainability. • Handling Dangerous Materials (Hazmat), Environmental Issues, and Hazardous Waste: Added EPA and EU restricted chemical list mention and internal lists of restricted/preferred materials. • Monitoring and Measurement: Updated P&G sustainability scorecard to 2022 version. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1320



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	<ul style="list-style-type: none"> ○ ASCM1321 ○ ASCM1322 ○ ASCM1323 ○ ASCM1324
Section B: Reverse Logistics	<p>Moved to Module 8, Section B: Incorporate Reverse Logistics</p> <ul style="list-style-type: none"> • Added desirability, feasibility, viability, and ethicality as key product factors.
Topic 1: Reverse Logistics and Handling Returns	<p>Moved to Module 8, Section B: Incorporate Reverse Logistics: Facilitate Reverse Logistics and Returns Handling</p> <ul style="list-style-type: none"> • Reverse Logistics: Moved the reverse logistics graphic to next topic, where exam outline now calls for it. • Key Product Factors: Added this new topic, with desirability, feasibility, viability, and ethicality factors. • Reasons for Reverse Flows: Added categories to match exam outline including damaged, defective, distressed, preference change, repairs, end of life, and fraud. • Reverse Logistics Hierarchy: Added content on reducing use of virgin materials. Distinguished refurbishing from re-manufacturing. • Internal or Outsourced: Moved contents on reverse logistics process and consolidation of returns from here to the next topic per the exam outline. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1326 ○ ASCM1329 ○ ASCM1335 ○ ASCM1336
Topic 2: Reverse Logistics Activities	<p>Moved to Module 8, Section B: Incorporate Reverse Logistics: Develop and Execute a Reverse Logistics Process</p> <ul style="list-style-type: none"> • Appropriate Options for Received Items and Disposition of Returns: Added repair process, recover parts process, transform to

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	<p>biochemicals/biofuels, and controlled inventories per exam outline.</p> <ul style="list-style-type: none"> • Forward and Reverse Flow and Steps of the Product Return Process: Created this new topic by moving content from prior topic to here. • Closed Loop (Circular) Supply Chains: Added "circular" to title. Added SCOR DS circular supply chain content from CTSC. Added biofuels or biochemicals. Replaced Red Box examples with a Muntons Maltings example. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1345 ○ ASCM1346
Topic 3: Closed-Loop Supply Chains and Optimizing Reverse Logistics	<p>Moved to Module 8, Section B: Incorporate Reverse Logistics: Optimize Reverse Logistics</p> <ul style="list-style-type: none"> • Creating Value Through Reverse Logistics: Changed header from Strategic View of Reverse Logistics. • Key Management Elements and Reverse Logistics: Added a set of reverse logistics metrics bullets. • Key Technologies for Reverse Logistics: Added bullets on Trace and trace, blockchain and on AI, Machine Learning and Customer Relationship Management. • Added a discussion of technology, process, and supply chain integration. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1352 ○ ASCM1353 ○ ASCM1355 ○ ASCM1356
MODULE 4: CAPACITY PLANNING AND DEMAND MANAGEMENT	Moved to Module 2: Demand Management and Supply (Capacity Management)
Section A: Forecasting	Moved to Module 2: Demand Management and Supply (Capacity Management): Section A: Forecast Demand
Topic 1: Forecasting Process and Methods	<p>Moved to Module 2, Section A: Develop a Forecasting Process and Methods</p> <ul style="list-style-type: none"> • The Nature of Forecasting and the Bullwhip Effect: Added bullets in ways to improve forecasting accuracy.



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	<ul style="list-style-type: none"> Forecasting for Distribution Channels: Production: Added content on the P/D ratio. Forecasting for Distribution Channels: E-Commerce: Added content on compensating for extra long lead times.
Topic 2: Interpreting Forecasts	Moved to Module 2, Section A: Interpret Forecasts
Topic 3: Logistics Demand Forecasting	Moved to Module 2, Section C: Translate Demand into Logistics Capacity Planning: Forecast Logistics Demand
Section B: Demand Management and Capacity Planning	Moved to Module 2: Demand Management and Supply (Capacity Management), Section B: Understand Demand Management
Topic 1: Introduction to and Components of Demand Management	<p>Moved to Module 2, Section B: Understand Demand Management and Its Components</p> <ul style="list-style-type: none"> Introduction to Demand Management: Clarified that Strategic plan should be understood to also include the business plan.
Topic 2: Demand Management Process	<p>Moved to Module 2, Section B: Contribute to the Demand Management Process</p> <ul style="list-style-type: none"> Demand Shaping: Influencing Demand: added clarification about what customer behavior should be influenced (how order, how often, how many, what). Incorporate Risk into Demand Management: Added this discussion new per exam outline.
Topic 3: Logistics Demand Shaping	Moved to Module 2, Section C: Translate Demand into Logistics Capacity Planning: Recognize the Role of Logistics Demand Shaping Strategies
Topic 4: Transportation and Capacity Planning	<p>Moved to Module 2, Section C: Translate Demand into Logistics Capacity Planning: Conduct Transportation and Capacity Planning</p> <ul style="list-style-type: none"> Planning Horizons: Added this new discussion per exam outline addition. Warehousing Considerations: Added how cross-docking is type of lean warehousing. Added discussion of flexible public capacity warehouses, robot rentals, and flexible hours for labor.



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Section C: Sales and Operations Planning (S&OP)	Moved to Module 2, Section D: Support Sales and Operations Planning (S&OP)
Topic 1: Sales and Operations Planning	<p>Moved to Module 2, Section D: Learn the Sales and Operations Planning Process</p> <ul style="list-style-type: none"> • Forecasts of Logistics Demand Using Forecasting Tools: Added content about using annual state of logistics market scans. • Sales and Operations Planning Road Map: Added content on integrated business planning.
Topic 2: Related Planning Tools	<p>Moved to Module 2, Section D Learn the Sales and Operations Planning Process</p> <ul style="list-style-type: none"> • Collaborative Planning, Forecasting, and Replenishment: Added examples of companies that use it. Mention that Lowes and Whirlpool start with CPFR and then also collaborate on S&OP.
Section D: Distribution Requirements Planning (DRP)	Moved to Module 2, Section E: Support Distribution Requirements Planning (DRP)
Topic 1: DRP Basics and Inventory Planning	<p>Moved to Module 2, Section E: Understand DRP Basics and Inventory Planning</p> <ul style="list-style-type: none"> • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1441
Topic 2: Logistics Resource Requirements Planning and Logistics Capacity Planning	Moved to Module 2, Section E: Understand the DRP Process, Logic, and Ordering Policies
Topic 3: DRP Process, Logic, and Ordering Policies	<p>Moved to Module 2, Section E: Support Distribution Requirements Planning (DRP), Understand the DRP Process, Logic, and Ordering Policies</p> <ul style="list-style-type: none"> • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1353
Section E: Master Scheduling and Material Requirements Planning	Moved to Module 2, Section F: Understand Master Scheduling and Material Requirements Planning
Topic 1: Enterprise Resources Planning	<p>Moved to Module 2, Section F: Use Enterprise Resource Planning (ERP) Systems and Execution Systems</p> <ul style="list-style-type: none"> • Supply Chain Execution Systems: This is a new area that the exam outline calls for. Added new



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	content and content on control towers from CSCP.
Topic 2: Master Scheduling	Moved to Module 2, Section F: Understand Master Scheduling
Topic 3: Material Requirements Planning	Moved to Module 2, Section F: Understand Material Requirements Planning
Section F: Sourcing and Procurement	Moved to Module 2, Section G: Facilitate Sourcing and Procurement
Topic 1: Purchasing Strategy	<p>Moved to Module 2, Section G: Apply Procurement Strategy</p> <ul style="list-style-type: none">• Changed title of topic from Purchasing Strategy to Apply Procurement Strategy.• Logistics Relationship with Procurement: Created this subtopic new and moved intro content to here.• Procurement Organizational Structure and Strategy: Created this new topic and moved procurement organizational structure content here, then wrote a new summary of procurement strategy process.• Spend Analysis and Make-or-Buy Decisions: Spend Analysis: Added discussion of defining spend categories, analyzing for quantity and category characteristics, plus need to understand supplier economics.• Spend Analysis and Make-or-Buy Decisions: Make-or-Buy Decisions (for inventory): added long-term goals for each strategy and that critical should provide competitive advantage.• Strategic Sourcing: Added that operational integration can save more than even consolidation of suppliers. Added that consolidation can change supplier dynamics and how.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1472○ ASCM1473○ ASCM1475○ ASCM1476
Topic 2: Procurement Process	Moved to Module 2, Section G: Use a Procurement Process

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	<ul style="list-style-type: none"> Selecting Suppliers: Identify Potential Suppliers: Added content e-sourcing and e-procurement and cybersecurity. Managing Suppliers: Monitor and Control: Added content on supplier audits.
Topic 3: Contracts and Supplier Performance Management	<p>Moved to Module 2, Section G: Create and Use Contracts and Supplier Performance Management</p> <ul style="list-style-type: none"> Contract Types: Firm-fixed price discussion: Added content about healthcare industry use of fixed cost but need to know reimbursement too. Supplier Performance Management: Added discussion of quantity and type/subtype variances from order. The following test items were revised: <ul style="list-style-type: none"> ASCM1487 ASCM1490
MODULE 5: ORDER MANAGEMENT	Renamed and Moved to Module 3: Customer and Order Management
Section A: Customer Relationship Management	Moved to Module 3, Section A: Enable Customer Relationship Management (CRM)
Topic 1: What Is CRM?	<p>Moved to Module 3, Section A: Understand CRM and Apply Customer Segmentation</p> <ul style="list-style-type: none"> Customer Segmentation: Added operationalized customer segmentation discussion and revised existing discussion to accommodate this addition. Lifetime Customers: Added a metric on number of customers raised to a higher tier. Added a matrix of EBIT versus total supply chain management cost with four quadrants. Updated CRM market size statistic. The following test items were revised: <ul style="list-style-type: none"> ASCM1514
Topic 2: Implementing the CRM Process	Moved to Module 3, Section A: Understand the CRM Process



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	<ul style="list-style-type: none">• Steps to the CRM Process: Added new Step 1 and renumbered remaining Steps; Step 2: Changed cost to serve to total supply chain management cost. Added example of pallet pick, pallet ship, to each pick, each ship as another common cost driver.• Steps to the CRM Process: Step 3: Moved service level agreement content that was here to the next topic.
Topic 3: Customer Segmentation and Management	<p>Split into Module 3, Section A: Understand CRM and Apply Customer Segmentation</p> <p>Split into Module 3, Section A: Facilitate Customer Service Management (CSM)</p> <ul style="list-style-type: none">• Customer Service Management: changed header from Customer Management• Customer Service Management Elements and Agreements: changed header from Customer Management Elements and moved SLA discussion here. Updated customer service annoyances discussion with information on wait times.• Customer Service Management Strategy Development: changed header from Customer Management Strategy Development• Customer Service Management Performance Measurement: changed header from Customer Management Performance Measurement; Added mentions of SCOR DS level 2 metrics related to perfect orders.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1547



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Section B: Order Management Process	Moved to Module 3, Section B: Enable Outbound and Inbound Order Management
Topic 1: Inbound Order Management	<p>Split into Module 3, Section B: Set Strategy and Tactics for Outbound and Inbound Orders</p> <ul style="list-style-type: none">• Order Management Process: Moved content from mod 5 intro to this new topic.• Inbound, Intracompany, and Outbound Logistics: Made this new topic and moved contents to here. Added mention of inbound logistics sometimes falling under procurement. Moved outbound logistics definition to here and added two other outbound logistics terms.• Strategic Level: SRM, CRM, VMI, Retail Order Management, Lead Time: Added content on outbound to area including mention of CRM.• Tactical Level: Routing Guides: Added purpose of avoiding off-contract buying. Added mention of freight forwarders and freight terms to routing guides. Added need for delivery window specification. Added discussion of routing guides reducing rework such as wrong pallet height; goal is no repacking is needed as supplier gets it right. <p>Split into Module 3, Section B: Facilitate Operations and Performance Measurement for Outbound and Inbound Orders</p> <ul style="list-style-type: none">• Operational Level: Inbound Logistics Processes: Order Receipt and Quality Inspection: Added that quality control may have a dedicated holding area or could come to receiving bay. Added bullets on delivery matching, ASN and container seals needing to be intact. Added need to provide training to ensure inventory records accuracy and cross training for better worker utilization.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1558○ ASCM1566○ ASCM1572
Topic 2: Outbound Order Management	Moved to Module 3, Section B: Facilitate Operations and Performance Measurement for Outbound and Inbound Orders

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	<ul style="list-style-type: none"> Order Cycle Time and Order to Cash Cycle: Added logistics performance cycle as a synonym. Tracking and Measuring Supplier/Carrier Performance: moved this to the end of the topic.
Topic 3: Order Channels and Order Fulfillment Channels	<p>Moved to Module 3, Section B: Optimize Order Channels, Distribution Strategies, Networks, and Order Fulfillment Channels</p> <ul style="list-style-type: none"> Types of Order Channels and Distribution Strategies: Changed header from Types of Order Channels and Order Fulfillment Channels; Added a summary graphic previously only shown in mod 1. Added new categories: integrated fulfillment, dedicated fulfillment, pool fulfillment, store fulfillment, and flow-through fulfillment with new graphics. Types of Distribution Networks and Order Fulfillment Channels: Added new Comparison of Distribution Networks chart; added new Comparison of Order Fulfillment Channels chart. Exports: Replaced software example Amber Road with company that bought it, e2open. The following test items were revised: <ul style="list-style-type: none"> ASCM1592 ASCM1594 ASCM1595 ASCM1596 ASCM1597
MODULE 6: INVENTORY MANAGEMENT	Moved to Module 5: Inventory Management
Section A: Inventory Management in Logistics	Moved to Module 5, Section A: Understand Inventory Management Fundamentals
Topic 1: Role of Inventory	<p>Moved to Module 5, Section A: Understand Inventory Types, Characteristics, and the Role of Inventory Management</p> <ul style="list-style-type: none"> Inventory Types and Characteristics: Added bullets for refurbished materials and inventory in transit. Added new content on special inventory characteristics (short bulleted list).

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	<ul style="list-style-type: none"> Decoupling Supply and Demand: Added Decoupling Points in Service and Manufacturing Industries table and content on decoupling points. Supporting Total Cost Objectives: Added content on bulk purchase analysis. Stakeholder Perceptions of Inventory: Added content on how organizations with higher supply chain maturity may have more collaboration. The following test items were revised: <ul style="list-style-type: none"> ASCM1602 ASCM1603 ASCM1612
Topic 2: Functions of Inventory	<p>Moved to Module 5, Section A: Define Functions of Inventory and Related Strategies</p> <ul style="list-style-type: none"> Demand: Transportation or Pipeline Stock: Noted that large ocean shippers may have up to 2 months of inventory in transit. Demand: Anticipation inventory: Updated definition to supplemental def. Added Chinese New Year example. Smoothing Fluctuations in Supply and Demand: recast geographic specialization, decoupling, and seasonal fluctuations discussion to be more in line with Bowersox source (from causation to a way to reduce problems). Smoothing Fluctuations in Supply and Demand: Geographical Specialization: Recast as a goal to be met rather than a problem to overcome. Smoothing Fluctuations in Supply and Demand: Decoupling Supply or Demand: Ensured buffer is discussed here. Smoothing Fluctuations in Supply and Demand: Seasonal Fluctuations in Supply or Demand: Added chocolate inventory spike example. Uncertainty in Supply or Demand: Safety Stock and Safety Lead Time: Added Safety Lead Time to header and content. Inventory Management Strategies: Added a set of inventory management strategies in bullet form. The following test items were revised: <ul style="list-style-type: none"> ASCM1619

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Topic 3: Inventory Costs	<p>Moved to Module 5, Section A: Understand the Costs of Inventory</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1635 ASCM1640
Section B: Inventory Control, Strategy, and Policy	Moved to Module 5, Section B: Develop Inventory Strategy and Policy and Implement Inventory Control
Topic 1: Determining When and How Much to Order	<p>Moved to Module 5, Section B: Determine When and How Much to Order</p> <ul style="list-style-type: none"> Inventory Planning and Control/Demand Types: Removed references to MRP II and discuss as modern closed-loop MRP systems within ERP. When to Order: Moved Order or Reorder Point up to be a type of when to order. How Much (or How Many Periods Worth) to Order: EOQ and POQ: Added new sections on POQ and EOQ versus POQ. How Much to Order: Target Inventory Level (e.g., Min-Max): Revised title to reflect broader method mentioned in exam outline. Mentioned that it is adaptation of a fixed order quantity system. Other Methods of How Much to Order: Added new content. The following test items were revised: <ul style="list-style-type: none"> ASCM1641 ASCM1649 ASCM1660
Topic 2: Managing Exceptions, Anomalies, Constraints, and Conditions of Uncertainty	<p>Moved to Module 5, Section B: Manage Exceptions, Anomalies, Constraints, and Conditions of Uncertainty</p> <ul style="list-style-type: none"> Setting Safety Stock for Desired Service Level: Calculating Safety Stock based on Order Cycle Time (OCT) and OCT Variability: Added this new discussion. Setting Safety Stock for Desired Service Level: Stockout Cost Validation for Safety Stock: Added this new discussion. Other Inventory Management Approaches: Added that consignment is sometimes called



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	<p>vendor-owned or supplier financed. Added comparison of VMI with consignment.</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1662 ASCM1665
Topic 3: ABC Analysis of Inventory	<p>Moved to Module 5, Section B: Conduct Inventory Classification Including ABC Analysis of Inventory</p> <ul style="list-style-type: none"> Conduct Inventory Classification Including ABC Analysis of Inventory: Changed title of topic to include generic term for this as included in exam outline. Added brief discussion of other methods including XYZ. ABC Analysis by Revenue or Other Factors: Added mentions of ABC-DE and ABC1,C2,ESX. Added bullet on inventory picking frequency analysis.
Topic 4: Transaction Management, Inventory Review, and Inventory Auditing	<p>Moved to Module 5, Section B: Perform Transaction Management and Inventory Review, Auditing, and Compliance</p> <ul style="list-style-type: none"> Inventory Auditing: Added Inventory Compliance section per exam outline.
Topic 5: Inventory Performance Metrics	<p>Moved to Module 5, Section B: Develop and Monitor Inventory Performance Metrics</p> <ul style="list-style-type: none"> Inventory Control Metrics: Added damaged and loss rate as it was added to the exam outline here. Inventory Efficiency Metrics: Added that too high turnover can risk stockouts. Added average age of inventory formula and discussion.
MODULE 7: WAREHOUSE MANAGEMENT	Moved and Renamed to Module 4: Warehouse Distribution/Fulfillment Center Management
Section A: Warehouse Strategy and Tactics	Moved to Module 4, Section A: Identify Warehouse Strategy, Ownership, and Roles
Topic 1: Warehouse Strategy	Moved to Module 4, Section A: Identify, Determine, and Apply Warehousing Strategies

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	<ul style="list-style-type: none"> • Warehousing and Distribution/Fulfillment Centers: Rewrote content to remove Ross quotation. • Warehouse Economics: Added how warehouse design impacts warehouse economics such as square root rule for safety stock in network. • Challenges of Warehousing and Forces Shaping Future of Warehousing: Technology: Added content on fulfill from anywhere. • Challenges of Warehousing and Forces Shaping Future of Warehousing: Space, Location, and Resource Constraints: Added new subtopic based on exam outline. • Outsourcing and 3PLs: Added mention of 3PLs here per exam outline. • Value-added Warehousing: Moved postponement warehousing here and revised. Added bullet on packaging, labeling, and pre-ticking. Revised kitting. Added inspection and repair bullets. • Business-to-Business, Business-to-Consumer, and Cross-Docking: added new discussions of B2B and B2C here and moved cross-docking here. Added that cross-docking requires supply chain maturity.
Topic 2: Warehouse Ownership Types	<p>Moved to Module 4, Section A: Differentiate Between Warehouse Ownership Types</p> <ul style="list-style-type: none"> • Private Warehouses: added that the facility may be directly leased rather than actually owned. Mentioned naming rights and how sustainable warehouses are often private. Mentioned economies of scale and scope as reasons not to use. • Public and Contract Warehouses: added mention of subtypes such as for furniture. For contracted warehouses added that LSP may own many assets to lease to different clients. • To Own or Not to Own?: Noted that rent is a variable cost and clarified fixed cost on graphic. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1695 ○ ASCM1697



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Topic 3: Warehouse Functions and Specialized Services	<p>Moved to Module 4, Section A: Recognize Fundamental Warehouse Services</p> <ul style="list-style-type: none">• Storing Raw Materials: Added that they also now do value added services.• Storing Product in Distribution Channel: Added that break-bulk and consolidation are opposites.• Bonded Warehouses: Moved this content here per exam outline.• Foreign/Free Trade Zones: Moved this content to here per exam outline. Updated number of FTZs in select locations.• Specialized Warehouse Services: Discuss fire and hazardous goods.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1700○ ASCM1702○ ASCM1704○ ASCM1707○ ASCM1708○ ASCM1709○ ASCM1710
Topic 4: Warehouse Documentation and Performance Management	<p>Moved to Module 4, Section C: Evaluate Warehouse Facility Layout Decisions and Manage Performance</p> <ul style="list-style-type: none">• Warehouse Metrics: Mention cost, throughput, productivity, capacity per exam outline.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1719
Section B: Warehouse Processes	Moved to Module 4, Section B: Formulate Warehouse Processes and Order Flow
Topic 1: Receiving	<p>Moved to Module 4, Section B: Understand Receiving, Inspection, and Returns</p> <ul style="list-style-type: none">• Warehouse Processes Road Map: Moved graphic out of introduction and revised the flowchart.• Warehouse Receiving, Inspection, and Returns Processing: Mention over, short and damage and lot and batch recording. Added new subtopic on Inspection and Quality Control.



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	<p>Added new subtopic on receiving and processing returns.</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1723
Topic 2: Storage	<p>Moved to Module 4, Section B: Understand Storage, Replenishment, and Inventory Management</p> <ul style="list-style-type: none"> Warehouse Storing/Put-Away: Added extended versus active storage. The following test items were revised: <ul style="list-style-type: none"> ASCM1726 ASCM1728
Topic 3: Picking	<p>Moved to Module 4, Section B: Set Picking and Packing Strategy and Tactics</p> <ul style="list-style-type: none"> Warehouse Picking and Packing: Revised cost of missed picks, moved FEFO here. Added AMRs to part-to-picker. Added discussion of packing. Order Increments and Level of Automation: Added breakdown of picking and shipping increments by cost. Routing Strategy: Added mention of ABC slotting. Mention short cut tunnel. Picking Structure: Added cluster picking and revised batch picking. Mention conveyors for zone picking. Factors Affecting Picking and Packing Productivity: Mention wise slotting for intelligent picking. Mention single tasking pickers, not sending to empty location, and reprogramming WMS to recognize shortcuts or avoid illogical directions.
Topic 4: Sorting/Packing and Value-Added Services	<p>Moved to Module 4, Section B: Set Picking and Packing Strategy and Tactics</p> <ul style="list-style-type: none"> Sorting/Consolidation and Value-Added Services: added that cross-docking is a form of sorting. Mention automated sorting systems.
Topic 5: Replenishment and Dispatch	<p>Split into Module 4, Section B: Understand Storage, Replenishment, and Inventory Management</p>



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	<ul style="list-style-type: none">• Replenishment: Added on demand, routine, and opportunistic replenishment. Revised discussion of pick face sizing. Added content on replenishment routines. Revised replenishment performance factors. Added Inventory Management performance factors new. <p>Split into Module 4, Section B: Specify Packing and Dispatch (Loading and Shipping) Processes</p> <ul style="list-style-type: none">• Packaging and Unitizing: Added this as its own subtopic and moved content here and revised.• Dispatch (loading and shipping): Moved loading here and added a bit preloading trailers, using trailer shaped tape outlines, and on shipping to same-day or next-day deadlines.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1737○ ASCM1740
Section C: Warehouse Layout	Moved to Module 4, Section C: Evaluate Warehouse Facility Layout Decisions and Manage Performance
Topic 1: Warehouse Design Principles and Process	<p>Moved to Module 4, Section C: Understand Warehouse Design Principles and Process</p> <ul style="list-style-type: none">• Warehouse Layout Design Principles: Added ideal layout is a single-floor building. Added ways to protect inventory and equipment to utilization of capital discussion. For flexibility and scalability, added discussion of centralization versus decentralization of inventory impact. Moved an example of warehouse needs changing from intro to here.• Warehouse Design Process: Create Internal and External Layouts: Added product flow schematics as an also called.• Warehouse Design Process: Define Information System Operation: Added mention of machine learning.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1752○ ASCM1754
Topic 2: Facility Size	Moved to Module 4, Section C: Determine Facility Size

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	<ul style="list-style-type: none"> Warehouse Capacity: Increasing Capacity: Noted that average size and height of warehouses is increasing. Added floor slab needs to accommodate height needs. Types of Warehouse Space: Added estimates of warehouse space per area. The following test items were revised: <ul style="list-style-type: none"> ASCM1758
Topic 3: Types of Layouts	<p>Moved to Module 4, Section C: Evaluate Types of Layouts</p> <ul style="list-style-type: none"> U-Flow Warehouse Layout: Added ABC levels to graphic and discussion. Added that a mezzanine can be added above receiving. Through-Flow Warehouse Layout: Added ABC levels to graphic and discussion.
Topic 4: Optimizing Space and Capacity	<p>Moved to Module 4, Section C: Optimize Space and Capacity</p> <ul style="list-style-type: none"> Finding Additional Warehouse Space: Added that apps exist for renting space and 3PLs also provide this service. Added that racking for half pallets should be created and mention inflatable units.
Section D: Materials Handling and Warehouse Automation	Moved to Module 4, Section E: Incorporate Materials Handling and Warehouse Automation
Topic 1: Materials Handling and Conveyors	<p>Moved to Module 4, Section E: Understand Materials Handling Considerations and Types</p> <ul style="list-style-type: none"> Materials Handling: Added categories of transport, positioning, unit load, storage, and visibility/control. Mention gravity flow is to be used when possible and to match equipment weight to load weight. Types of Materials Handling Systems: Created this topic new and discuss differences between them (labor is key difference). Ensure process is improved before automating. Types of Materials Handling Systems: Automated/Robotic Systems: Added discussion of autonomous mobile robots and drones.



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	<p>Moved AGVs here. Added AGVs avoid bottlenecks. Discuss AGV forklift trucks.</p> <ul style="list-style-type: none">• Types of Materials Handling Systems: Fully Automated Systems (Including AS/RS Systems): Moved AS/RS here and added more of their benefits. Added automated cross-docking example. Added they can do unit load formation. Mention 3D shuttle with stackable totes instead of racking.• Types of Materials Handling Systems: Sortation Systems (Including Conveyors): Moved conveyors here. Noted that gravity conveyors are easier to reconfigure. Discuss a put wall of pick-to-light pigeonholes. Mention AMRs or AGVs can be used for parcel sorting.
Topic 2: Picking Systems	<p>Moved to Module 4, Section E: Use Picking Systems</p> <ul style="list-style-type: none">• Picking Communication Systems: Noted that pick-to-light, etc. can be via WiFi. Pick-to-light is especially used in zone picking. Vests can be used for pick-to-voice instead of headsets. Added Selecting a Picking Solution content, including lines per hour for various methods.• Picker-to-Part and Part-to-Picker Systems: Changed header from Picker-to-Goods and Goods-to-Picker Systems; Noted picker-to-part is facilitated by mezzanine.• Robotic Picking Systems: Added A-frame dispenser advantages. Added AMRs to shelf-modules-to-put away.• The following test items were revised:<ul style="list-style-type: none">○ ASCM1777
Topic 3: Handling Systems	<p>Moved to Module 4, Section E: Use Dock and Internal Transportation Equipment</p> <ul style="list-style-type: none">• Internal Transportation Equipment: header changed from Product Handling Equipment. Added that electric forklifts can recapture energy from lowering loads or braking. Added discussion of automated unloading systems.
Topic 4: Storage Systems	<p>Moved to Module 4, Section E: Use Storage Systems</p> <ul style="list-style-type: none">• Palletized Storage: Added palletization is done for as many items as possible. Noted that block stacking can be used for paper rolls and other

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	<p>not easily palletized items. Noted that flow rack replenishment and picking occur on different sides and don't interfere with each other. Noted that some mobile racking requires inset steel runners. Changed out example of shelving to show photos of warehouse shelving and bin drawers.</p>
Topic 5: Slotting Strategy	<p>Moved to Module 4, Section B: Set Slotting Strategy</p> <ul style="list-style-type: none"> • Set Slotting Strategy: Moved this topic here because it is interrelated with picking. • Factors Influencing Slotting Strategy: Wrote how slotting, picking method, and routing strategy are clearly interrelated. Made a better ABC approach to slotting graphic. • Product and Slot Profiles: Mention slotting software. • Fixed versus Random Locations: Added mention of co-location as a hybrid. • The following test items were revised: <ul style="list-style-type: none"> ◦ ASCM1793
Topic 6: Health, Safety, and Security	<p>Moved to Module 4, Section E: Consider Health, Safety, and Security</p> <ul style="list-style-type: none"> • Warehouse Health and Safety: Noted most common OSHA citations. Mention for redesigning warehouse processes that they can be redesigned for special needs access or to place A items between hips and shoulders. Noted how cleaning and periodic maintenance are safety issues. • Securing Warehouse Assets and Contents: Noted some controls to prevent warehouse worker and driver collusion.
Topic 7: Warehouse Systems and Automation	<p>Moved to Module 4, Section C: Prepare and Use Warehouse Management Systems and Documentation</p> <ul style="list-style-type: none"> • Warehouse Management Systems: Selecting the Right WMS: Noted that simple warehouses may only need simple WMS. Note how need to eliminate redundancies and frustrations before automating. Noted advantages of SAAS. Added APIs to discussion of internet access. Noted

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	<p>that productivity measures are key WMS requirement not in inventory control systems. Added need to support omni-channel. Note how labor management is key WMS need. Added discussion of Warehouse Execution Systems.</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1800 ASCM1802
Section E: Packaging	Moved to Module 4, Section D: Incorporate Packaging
Topic 1: Product and Packaging Fundamentals	<p>Moved to Module 4, Section D: Understand Product and Packaging Fundamentals</p> <ul style="list-style-type: none"> Packaging and Product Characteristics: Added mention of correct pallet type for customer for materials handling. Packaging Goals: Noted that breaking, crushing are large percentage of insurance claims and that weight in a container needs to be evenly distributed. Building-Blocks Concept: Added primary, secondary, and tertiary categories and moved dunnage to be part of tertiary rather than a fourth layer. Sustainable Packaging: Reduce weight within reason because cost of product spoilage has higher environmental impact than the packaging. Mention regulation 94/62/EC. Noted rigid containers reduce risk of pilferage. Barcoding/RFID: Moved to Module 5, Section A: Understand the Role of Technology in Inventory Management; Added mentions of readers increasing accuracy, comparison with a photo, WiFi readers. Mention 1D barcode as type. Added GS1 DataBar type; Added discussion of lull and resurgence in popularity with examples. The following test items were revised: <ul style="list-style-type: none"> ASCM1806 ASCM1807 ASCM1809 ASCM1811 ASCM1813 ASCM1814 ASCM1815 ASCM1824



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	<ul style="list-style-type: none"> ○ ASCM1826
Topic 2: Unitization and Unit Loads	<p>Moved to Module 4, Section D: Incorporate Unitization and Unit Loads</p> <ul style="list-style-type: none"> • Unitization and Carrier Unit Load Requirements: Added nonpalletized unit loads. • Master Cartons: Designing a Master Carton: Added non-corrugated type and single, double, and triple wall corrugated. • Palletization: Pallet Sizes: Added that tiers of customers also need to receive correct pallet type or adopt your pallet type.
MODULE 8: TRANSPORTATION	Moved to Module 6: Transportation Management
Section A: Transportation Fundamentals	Moved to Module 6, Section A: Understand Transportation Fundamentals
Topic 1: Transportation and Transportation Cost Structure	<p>Moved to Module 6, Section A: Understand Transportation and the Transportation Cost Structure</p> <ul style="list-style-type: none"> • Terminals: Types of Terminals: Updated U.S. drive time and halfway point for relay terminals. • Vehicles: Private Trucking or Other Fleet Cost Analysis: Added Amazon air and truck fleet example. Added "or Other Fleet" to title. • Labor: Added new topic on labor. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1843
Topic 2: Transportation Stakeholders, Capabilities, and Intermediaries	<p>Moved to Module 6, Section A: Identify Transportation Stakeholders, Capabilities, and Intermediaries</p> <ul style="list-style-type: none"> • Transportation Stakeholders: Sold-To Party: Added this new subtopic. • Transportation Intermediaries (Including 3PLs/4PLs/5PLs): Logistics Service Providers: Noted that 3PLs do not take title to the product. Noted how 3PLs started offering end-to-end service in the 2020s. Added that in-house that has this as a "core competency" would not benefit from outsourcing. Noted historical lack of 3PL innovation. Noted how 3PLs may offer apps or subscription access to software. Noted how 4PLs help clients innovate

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	<p>and how they may oversee control towers. Noted how non-asset based providers can innovate and customize but could have capacity issues. Added discussion on 5PLs.</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1859 ASCM1860 ASCM1861
Topic 3: Carrier Types	<p>Moved to Module 6, Section A: Differentiate Between Various Carrier Types</p> <ul style="list-style-type: none"> Private Carriers: Noted that owning fleet requires knowing costs in detail including how to optimize fuel. Noted how many private fleets are for last mile. Contract, Dedicated and Exempt Carriers: Contract and Dedicated Carriers: Added "Dedicated" to title and noted as synonym. The following test items were revised: <ul style="list-style-type: none"> ASCM1864 ASCM1866 ASCM1867 ASCM1868
Topic 4: Modes of Transportation and Selection Considerations	<p>Moved to Module 6, Section A: Understand Modes of Transportation</p> <ul style="list-style-type: none"> Modes for Moving Goods: Exhibit "Global Example of Freight Transports by Mode": Updated data to 2019, 2020, or 2021 data per sources. The following test items were revised: <ul style="list-style-type: none"> ASCM1869 ASCM1870 ASCM1872 ASCM1873 ASCM1874 ASCM1875 ASCM1877 ASCM1878 ASCM1879 ASCM1880 ASCM1881 ASCM1882 ASCM1883 ASCM1884



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	<ul style="list-style-type: none"> ○ ASCM1885 ○ ASCM1886 ○ ASCM1887 ○ ASCM1888
Section B: Road Transportation	Moved to Module 6, Section B: Identify Road Transportation Characteristics
Topic 1: Road Infrastructure	Moved to Module 6, Section B: Understand Road Infrastructure
Topic 2: Road Vehicle and Trailer Types	<p>Moved to Module 6, Section B: Identify Road Vehicle and Trailer Types</p> <ul style="list-style-type: none"> • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1894
Topic 3: Road Freight Classifications	<p>Moved to Module 6, Section B: Consider Road Service Types</p> <ul style="list-style-type: none"> • Consider Road Service Types: Changed title of topic from "Road Freight Classification" to "Road Service Types" per exam outline. • Freight Rates: Added content about materials that need specialized vehicles and payloads. Added a four-step process on how to set freight rates. Added freight of all kinds (FAK) definition. Updated LTL carrier statistics to 2024. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1901
Topic 4: Road Market Structure and Operating/Service Characteristics	<p>Moved to Module 6, Section B: Identify Road Market Structure and Operating/Service Characteristics</p> <ul style="list-style-type: none"> • Cost Structure: Replaced data on fuel costs with new data and added discussion of fuel surcharges not capturing full cost increase. • Environmental Efficiency/Efficacy: Added new bullet on greenhouse gas emissions. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1906 ○ ASCM1907 ○ ASCM1908 ○ ASCM1910 ○ ASCM1911

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	<ul style="list-style-type: none"> ○ ASCM1912 ○ ASCM1913
Topic 5: Road Issues and Challenges	<p>Moved to Module 6, Section B: Consider Road Issues and Challenges</p> <ul style="list-style-type: none"> • Capacity Management Issues: Truck Driver Issues: Noted how CDL process was streamlined in the US in 2022 to address driver shortage. Updated driver shortage statistics. Noted how wage escalation adds to turnover problem and cost of turnover. • Operating Restrictions: Regulations and Required Permits: Noted how driver hour regulations, driver shortages, and high fuel costs called perfect storm or transportation crisis. • Safety Regulations Including Hours of Service: changed header from Regulations Covering Hours of Service; Updated U.S. Driver restrictions. • Electronic Logging Devices: Noted how ELDs stop people from cheating on hours of service restrictions as was possible with paper logs. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1916 ○ ASCM1918 ○ ASCM1921 ○ ASCM1923
Section C: Rail Transportation	Moved to Module 6, Section C: Identify Rail Transportation Characteristics
Topic 1: Rail History and Infrastructure	<p>Moved to Module 6, Section C: Understand Rail History and Infrastructure</p> <ul style="list-style-type: none"> • Brief History of Rail Transport and U.S. Regulatory Oversight: Rail Transport History: Added 2020s rail history (ROI improved, multimodal).
Topic 2: Types of Carriers and Railcars	<p>Moved to Module 6, Section C: Identify Types of Operations</p> <ul style="list-style-type: none"> • Types of Carriers and Freight: Types of Freight: Added carload lot definition, less-than-carload

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	<p>(LCL). Updated statistics on what percentages of goods they haul.</p> <ul style="list-style-type: none"> Rail Service Innovations: Added Manifest trains and multimodal trains bullets.
Topic 3: Rail Market Structure and Operating/Service Characteristics	<p>Moved to Module 6, Section C: Identify Rail Market Structure and Operating/Service Characteristics</p> <ul style="list-style-type: none"> Rail Market Structure and Sales Strategy: Noted that top 7 Class I carriers have large market share. Capability and Cost Structures: Updated cost of labor for rail statistics. Environmental Efficiency/Efficacy and Safety: Environmental Efficiency/Efficacy: Updated rail greenhouse gas statistics. Noted new aerodynamic railcars and fuel efficiency. The following test items were revised: <ul style="list-style-type: none"> ASCM1938 ASCM1940
Topic 4: Rail Issues and Challenges	Moved to Module 6, Section C: Consider Rail Issues and Challenges
Section D: Air Transport	Moved to Module 6, Section D: Identify Air Transport Characteristics
Topic 1: Air Infrastructure and Types of Carriers and Containers	<p>Moved to Module 6, Section D: Understand Air Infrastructure, and Types of Carriers/Containers, and Freight Classifications</p> <ul style="list-style-type: none"> Air Modality: Moved content out of the intro and moved it here. Air Carriers: Noted how Amazon is rapidly growing its air fleet for U.S. and European routes but are still much smaller than established carriers. Air Container Types and Freight Classifications: Freight Classifications: Added this new subtopic per exam outline. It includes content on dangerous goods with examples. The following test items were revised: <ul style="list-style-type: none"> ASCM1951 ASCM1952 ASCM1954

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Topic 2: Air Market Structure and Sales Strategy	<p>Moved to Module 6, Section D: Identify Air Market Structure and Sales Strategy</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM1963
Topic 3: Air Operating/Service Characteristics	<p>Moved to Module 6, Section D: Identify Air Operating/Service Characteristics</p> <ul style="list-style-type: none"> Cost Structure: Updated labor and fuel operating cost statistics. Added discussion on operating leases. Capacity and Speed: Capacity: Noted how an event such as iPhone release can drive up air rates. The following test items were revised: <ul style="list-style-type: none"> ASCM1965 ASCM1967
Topic 4: Air Issues and Challenges	<p>Moved to Module 6, Section D: Consider Air Issues and Challenges</p> <ul style="list-style-type: none"> Noted how market changes have slowed growth with example of no more packaged software shipping. Security, Scheduling, and Technology: Security: Noted U.S. legislation calling for 100 percent screening of cargo on passenger flights. Security, Scheduling, and Technology: Technology: added software that integrates air freight systems into customs clearance with Air Cargo Fast Flow Program example. The following test items were revised: <ul style="list-style-type: none"> ASCM1972
Section E: Ocean and Inland Waterway Transportation	Moved to Module 6, Section E: Identify Water (Ocean and Inland Waterway) Transportation Characteristics
Topic 1: Water Transport Infrastructure and Classifications	<p>Moved to Module 6, Section E: Understand Water Transport Infrastructure and Service Types</p> <ul style="list-style-type: none"> Water Service Types: Bulk Freight: Noted how dry materials act like liquids as they fill hold. The following test items were revised:

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	<ul style="list-style-type: none"> ○ ASCM1976
Topic 2: Water Vessel Types	<p>Moved to Module 6, Section E: Identify Types of Carriers and Water Vessel Types</p> <ul style="list-style-type: none"> • Types of Carriers: Common Carriers: Noted how NVOCCs buy big lots of container berths and resell in smaller increments for a profit. • Weights and Measures: Updated related statistics and added equivalent TEUs. • Tankers, Mother and Feeder Vessels, OSVs, and General Cargo Ships: Tankers: Added ultra-large crude carriers mention. • Lakers and Barges: Noted how adding or removing barges is form of capacity flexibility at low cost. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1981 ○ ASCM1985
Topic 3: Water Market Structure and Operating/Service Characteristics	<p>Moved to Module 6, Section E: Identify Water Market Structure and Operating/Service Characteristics</p> <ul style="list-style-type: none"> • Water Market Structure and Sales Strategy: Updated carrier alliances to include The Gemini Cooperation and noted other major changes. Updated liner conferences discussion and noted US. Ocean Shipping Reform Act of 2022 and how most liner cargo now uses independently negotiated confidential contracts. • Capability and Cost Structure: Capability: Water increased food and farm products but much less coal. • Capability and Cost Structure: Cost Structure: Updated average cost of water shipping per ton-mile. Noted how many port improvements are for materials handling mechanization. • Environmental Efficiency/Efficacy and Safety: Environmental Efficiency/Efficacy: Added content on IMO 2020 rules on very low sulfur fuel or need for scrubbers if high sulfur fuel oil used. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM1993

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Topic 4: Water Issues and Challenges	<p>Moved to Module 6, Section E: Consider Water Issues and Challenges</p> <ul style="list-style-type: none"> Capacity, Port Infrastructure, and Port Congestion: Capacity: Noted black swan events like COVID-19 and related international shipping crisis. Capacity, Port Infrastructure, and Port Congestion: Port Infrastructure (Depth, Height Limitations): Added problematic port dredging approval process. Capacity, Port Infrastructure, and Port Congestion: Port Congestion: Noted general increases in container traffic. Inventory Shrinkage: Security: Noted IMO's ISPS code as part of SOLAS. Inventory Shrinkage: Piracy: Updated piracy statistics. The following test items were revised: <ul style="list-style-type: none"> ASCM1995 ASCM1997 ASCM1998
Section F: Intermodal and Other Transportation Modes	<p>Moved to Module 6, Section F: Identify Multimodal, Multi-Stop, and Characteristics of Other Modes</p> <ul style="list-style-type: none"> Changed intermodal to multimodal throughout this course per exam outline change. Added intermodal as an also called.
Topic 1: Intermodal and Multimodal Transportation	<p>Moved to Module 6, Section F: Understand Multimodal, Multi-Stop, and Container Shipping</p> <ul style="list-style-type: none"> Multimodal (Intermodal) Transportation: Deleted distinction between intermodal and multimodal. Noted how single bill of lading is used for all transport modes and carriers used may only be known by 3PL, etc. Deleted trimodal reference. Added new subtopic on Multi-Stop Transportation. Added new subtopic on Service Types. Container Shipping: Added note about 60 percent of shipping being by containers plus growth rate. Noted AGVs for container handling at ports. Noted imbalance of trade for container empties in U.S./Europe and shortages in Asia.

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	<ul style="list-style-type: none"> Container Shipping: Container Types: Added height of high-cube containers and how 40'ers are over half of containers. Noted how open top has to be top of stack. Market Structure, Sales Strategy, and Operating/Service Characteristics: Operating/Service Characteristics of Multimodal Transport: Note how some land bridges go from Asia, over U.S. by rail, then to Europe. The following test items were revised: <ul style="list-style-type: none"> ASCM2001 ASCM2007 ASCM2008 ASCM2009 ASCM2010 ASCM2011 ASCM2012
Topic 2: Parcel, Courier, and Express Services	<p>Moved to Module 6, Section F: Identify Parcel, Courier, and Express Services Characteristics</p> <ul style="list-style-type: none"> Parcel and Courier Services: Freight Classifications: Added this subtopic new. Operating/Service Characteristics: Updated data on UPS Worldport shipping hub. The following test items were revised: <ul style="list-style-type: none"> ASCM2015 ASCM2018
Topic 3: Pipeline Transportation	<p>Moved to Module 6, Section F: Identify Pipeline Transportation Characteristics</p> <ul style="list-style-type: none"> Pipelines: Added content on low-carbon hydrogen in pipelines and carbon dioxide for carbon capture and storage. Updated U.S. pipeline statistics. Operating/Service Characteristics: Cost Structure: Updated pipeline costs and compared versus trucking costs per ton-mile. Operating/Service Characteristics: Speed: added how slow speed is form of free storage but cannot be adjusted so is inflexible. Operating/Service Characteristics: Environmental Efficiency/Efficacy: Noted large amount of water used for coal slurry.

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	<ul style="list-style-type: none"> Issues and Challenges: Political Issues: Replaced 2012 example with new Enbridge Line 5 example.
Section G: Transportation Management	Moved to Module 6: Transportation Management, Section G: Implement Transportation Management
Topic 1: Transportation Management, Network Design, and Mode Selection	<p>Moved to Module 6, Section G: Develop and Execute Transportation Management, Network Design, and Mode Selection</p> <ul style="list-style-type: none"> Transportation Network Design: Moved to Module 9, Section C: Facilitate Facilities Planning and Network Design; Noted why longer transportation times equate to more inventory and higher stockout costs. Product Considerations: Special Considerations: Added dangerous goods bullet and updated hazardous goods bullet. Selection of Transport Mode: Capabilities of Transport Modes exhibit: Added higher cost to road and containerized finished goods to rail. Added total cost comparison example of rail versus road on per unit cost basis. Noted how modal rates may not change together.
Topic 2: Carrier Negotiations and Selection	<p>Moved to Module 6, Section G: Facilitate Carrier Negotiations and Selection</p> <ul style="list-style-type: none"> Carrier Selection Process: Noted that 80 percent of commercial freight uses contractual rates. Noted benefits to each party. Contract Negotiations and Contracts: Added mention of standard templates and key sections.
Topic 3: Fleet Management and Optimization	<p>Moved to Module 6, Section G: Optimize the Fleet Management Process</p> <ul style="list-style-type: none"> Transportation Management Systems: Modernized discussion of TMSs and their capabilities, including shipment visibility, cloud systems, control towers, integration, API links.
Topic 4: Rate Structures	Moved to Module 6, Section G: Understand Rate Structures

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	<ul style="list-style-type: none"> Types of Charges and Rates: Types of Charges: Added this subtopic new. Determinants of Tariffs: Added mention of tapering principle for distance bullet. Accessorial: Added new content on accessorial charges including definition and examples. The following test items were revised: <ul style="list-style-type: none"> ASCM2062
Section H: Transportation Administration	Moved to Module 6, Section H: Conduct Transportation Administration
Topic 1: Transportation Documentation	<p>Moved to Module 6, Section H: Prepare and Use Transportation Documentation</p> <ul style="list-style-type: none"> The following test items were revised: <ul style="list-style-type: none"> ASCM2075
Topic 2: Tracking, Expediting, Tracing, Consolidating, and Related Metrics	<p>Moved to Module 6, Section H: Track, Trace, Consolidate, and Optimize Shipments Using Interfaces and Exception Management</p> <ul style="list-style-type: none"> Tracking, Tracing, Consolidating, and Optimizing Shipments: Tracking: Added real-time tracking mention. Electronic Data Interchange and Application Programming Interfaces (APIs): Application Programming Interfaces (APIs): Added this new subtopic. Exception Management Including Expediting: Noted loss and damage rate as a key metric. Exception Management Including Expediting: Expediting: Noted who may pay for the expediting. The following test items were revised: <ul style="list-style-type: none"> ASCM2079
Topic 3: Routing, Transportation Costs, and Freight Settlement	<p>Moved to Module 6, Section H: Manage Routing, Freight Pay and Audit, and Transportation Costs</p> <ul style="list-style-type: none"> Freight Pay and Audit (FP&A) Process: Added supplemental definition of FP&A and moved freight claims subtopic here.

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	<ul style="list-style-type: none"> Pay and Audit (FP&A) Process: Freight Claims: Added content on containerized freight insurance claims. Transportation Cost Forecasts and Internal Management versus Outsourcing Considerations: Added new subtopic on Internal Management versus Outsourcing. The following test items were revised: <ul style="list-style-type: none"> ASCM2085 ASCM2087 ASCM2088
MODULE 9: GLOBAL LOGISTICS CONSIDERATIONS	Moved to Module 7: Global Logistics
Section A: Infrastructure and Systems	Moved to Module 7, Section A: Characterize the International Environment and Global Infrastructure
Topic 1: Macroenvironmental Factors Influencing International Logistics	<p>Moved to Module 7, Section A: Understand Macroenvironmental Factors Influencing International Logistics</p> <ul style="list-style-type: none"> Geo-Political, Sustainability, and Economic Factors: Added this new subtopic. Geo-Political, Sustainability, and Economic Factors, Economic Factors: Added that investments in infrastructure or technology can shift advantages. The following test items were revised: <ul style="list-style-type: none"> ASCM2090 ASCM2094
Topic 2: International Infrastructure	<p>Moved to Module 7, Section A: Understand Local Infrastructure Considerations</p> <ul style="list-style-type: none"> Added "local" to the title of topic "Understand Local Infrastructure Considerations." Added content about local infrastructures in each operation area. Infrastructures: Canals and Waterways: Removed date from "Pocket Guide to Transportation". For Panama Canal bullet, added content on drought and auction system. Added <i>Ever Given</i> mention to Suez. Noted 2024 rate hikes. Infrastructures: Ports: Updated information on taller deeper cranes and containers moved per hour; added that ports need people trained in

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	<p>monitoring temperature charts and electric supply needed for reefers.</p> <ul style="list-style-type: none"> • Infrastructures: Rail: Added that in U.S., 100 car, double-stack trains are very common and very efficient. Noted how BNSF trans-continental railway is mostly double-tracked. Updated China rail data. • Infrastructures: Roads: Noted license plate corruption in Nigeria. • Infrastructures: Warehouses: Noted need to check individual warehouse websites. • Infrastructures: Airports: Noted expansion constraints. Updated top cargo airports to 2024. • Infrastructures: Utility Infrastructure: Added scheduled blackouts. • Global Trade Specialists: Updated header from International Trade Specialists.
Topic 3: Global Logistics Performance Management	<p>Moved to Module 7, Section A: Consider Global Logistics Performance Management Factors</p> <ul style="list-style-type: none"> • The World Bank's Logistics Performance Index (LPI): Updated number of participating countries to 139. Replaced example with one from 2024 (graphic was recreated for better readability). Noted how up to 20 countries can be compared using their tool. Referenced 2023 Connecting to Compete and revised discussion. Noted how 2022 international shipping crisis had only small timeliness degrade. • Global Supply Chain Cost: Noted how longer lead times increase obsolescence risk. Added new bullet on cost of security. Added import/export compliance risk. Added when low-cost country sourcing is best and when domestic sourcing is best. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM2106 ○ ASCM2108
Section B: Regulations	Moved to Module 7, Section B: Incorporate Regulations into Global Logistics Processes
Topic 1: International Trade	Moved to Module 7, Section B: Understand International Trade Agreements, Trade Blocs, and FTZs

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	<ul style="list-style-type: none"> • Trade Agreements: Added regional trade agreements (RTAs) as a synonym for FTAs. • Trading Blocs: Added TPP which passed without the U.S. in it. • Foreign/Free Trade Zones: Moved this content to here per exam outline. Updated number of FTZs in select locations. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM2112
Topic 2: International Transportation Regulations	<p>Moved to Module 7, Section B: Acknowledge International Transportation Regulations and Compliance</p> <ul style="list-style-type: none"> • Government Policies and Regulations: Added mention of cabotage laws. • Trade Compliance: Updated BIS report. • Trade Compliance: Restrictions on Buyers and Deemed Exports: Removed discussion of China - North Korea relations. • International Air Transport Association: Updated statistics to 2021. • International Maritime Organization (IMO) and its Dangerous Goods Code: Added this new subtopic. • Anti-Bribery and Anti-Corruption Practices: Updated number of signatories to OECD Anti-Bribery Convention to 2024. Noted 1998 amendment to FCPA. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM2117
Topic 3: Transportation Safety and Import/Export Regulations	<p>Moved to Module 7, Section B: Understand and Adhere to Transportation Safety Regulations</p> <ul style="list-style-type: none"> • Labor Safety and Equipment/Vehicle Standards: Added mention of Dali destroying Baltimore's Key Bridge in 2024 and added Equipment/Vehicle Standards as a new subtopic. • Dangerous Goods (Hazmat): Added Dangerous Goods discussion and distinction vs. hazardous materials. Noted that material transported at elevated temperature is regulated, too. Noted



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	<p>how GHS labels are revised every two years (removing specific date reference).</p> <ul style="list-style-type: none">• The following test items were revised:<ul style="list-style-type: none">○ ASCM2121○ ASCM2122○ ASCM2123
Section C: Customs Clearing and Documentation	Moved to Module 7, Section C: Facilitate Export/Import, Customs Clearing, and Documentation
Topic 1: Import/Export Process and Invoices	<p>Moved to Module 7, Section C: Understand the Import/Export Process and Invoice Types</p> <ul style="list-style-type: none">• Invoice Types: Commercial Invoice: Added how commercial invoice has Harmonized System Numbers, and other data for accurate tariff.• The following test items were revised:<ul style="list-style-type: none">○ ASCM2128○ ASCM2129○ ASCM2131
Topic 2: Import Documentation	<p>Moved to Module 7, Section C: Differentiate between Various Import Documents</p> <ul style="list-style-type: none">• Certificate of Origin: Updated discussion of USMCA and certificates of origin.• The following test items were revised:<ul style="list-style-type: none">○ ASCM2135○ ASCM2136
Topic 3: Export Documentation	<p>Moved to Module 7, Section C: Differentiate between Various Export Documents</p> <ul style="list-style-type: none">• Export Licenses: Added antiquities and rare earths as examples.• Electronic Export Information (EEI) or Shipper's Export Declaration (SED): Added new definition of EEI from Dictionary. Noted how EEI is needed for items above a certain value. Added Individual Validated Export License and clarified exporter of record.

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Topic 4: International Transportation Documents	<p>Moved to Module 7, Section C: Differentiate between Various International Transportation Documents</p> <ul style="list-style-type: none"> • Manifests, Waybills, Packing Lists, and Dangerous Goods Documentation: Manifests: Added this new subtopic. • Manifests, Waybills...: Packing Lists: Added how freight of all kinds used to work but not anymore. • Manifests, Waybills...: Dangerous Goods Declaration: Noted how dangerous goods specialist is needed for international shipments.
Topic 5: Customs Clearance	<p>Moved to Module 7, Section C: Understand the Customs Clearance Process and Its Components</p> <ul style="list-style-type: none"> • Customs Brokers, Duties, and Taxes: Duties and Taxes: noted term rules of origin for country of import bullet. • Customs Clearance Process: Added CBP penalties for negligence, gross negligence, and fraud. • Customs Bonds: Added bond (performance) definition and described what a customs bond is and role of surety company. • Other Taxes: Noted what ad-valorem taxes are. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM2142 ○ ASCM2147 ○ ASCM2150
Section D: Finance and Payment Options / Currency and Tax Considerations	Moved to Module 7, Section D: Understand Finance, Payment, Currency, and Tax Options/Implications
Topic 1: Terms of Sale and Methods of Payment	<p>Moved to Module 7, Section D: Understand and Apply Terms of Sale and Methods of Payment</p> <ul style="list-style-type: none"> • Contract Types, Terms, and Conditions: Added Contract Types to title and moved content from the intro to this section to here. Updated the discussion of the CISG with number of ratifiers, how U.S. left out some things and how UK never ratified. • Incoterms 2020 Trade Terms: Added 2020 to title. Noted how they do specify transfer of

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	<p>responsibility and risk. Noted how FCA is for multimodal and how the seller loads on the pre-carriage transport but the buyer loads on the main carriage vessel. For CIP noted how this is Coverage A insurance. For CIF noted how this is Coverage C unless CIF maximum cover is specified.</p> <ul style="list-style-type: none"> • Terms of Payment: Letters of Credit: Noted how fee is around 1.5 percent and how buyer may need to freeze funds, both of which make L/Cs unpopular. Under the L/C is issued step, added how seller sends pro forma invoice. For Seller's bank asks buyer's bank for money step, noted how SWIFT network is used. • Terms of Payment: Open Account: Added examples of net 30 and EOM.
Topic 2: Currency and Tax Considerations	<p>Moved to Module 7, Section D: Consider Currency Implications</p> <ul style="list-style-type: none"> • Currency Translation, Selecting a Currency, and Hedging: Currency Translation: Added currency translation as a new subtopic. • Currency Translation, Selecting...: Selecting a Currency: Noted that uncertainty avoidance is more important than potential upside. Noted how USD is common third-country currency, but euro is working to be so. Noted how euro makes for no translation needed among EU countries that use euro. • The following test items were revised: <ul style="list-style-type: none"> ○ ASCM2169 ○ ASCM2170 ○ ASCM2172 ○ ASCM2173 ○ ASCM2174 ○ ASCM2175 ○ ASCM2176 ○ ASCM2179 ○ ASCM2181 ○ ASCM2182