



Leading the Modern Quality
Movement in Pakistan

CLTD

CERTIFIED IN LOGISTICS, TRANSPORTATION & DISTRIBUTION Instructor-Led Training & Certification by ASCM-APICS (USA)

Association for Supply Chain Management

Board of Directors has conferred upon

Salah Al Qaisi, CLTD

the designation of

Certified in Logistics, Transportation and Distribution

*For successfully passing a rigorous examination process
based on industry standards guided by the APICS Certification Committee on*

14 July 2025

expires
31 July 2030

Ali Eshkenazi, CSCP, CPA, CAE
ASCM Chief Executive Officer



Paul Pittman, CPDM-F, CSCP-F
ASCM 2025 Chair of the Board



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Authorized
APICS Academic Partner TM



About: PIQC INSTITUTE OF QUALITY



For over 35 years, PIQC Institute of Quality has been advancing excellence in Quality Management, Supply Chain, Human Resource Management, Industrial Management, ESG and Environmental Health & Safety (EHS) — serving professionals and organizations in Pakistan, the GCC & Middle East, Africa, Europe, North America and Asia-Pacific.

As a trusted global institution, PIQC has delivered:

- **Professional Diplomas & Certifications** – Supply Chain, Project Management, Quality, Human Resource Management, Healthcare Quality, and Labor Laws & IR, Construction Quality, Quality Management in Education, Quality Assurance
- **International Certifications** – APICS: CTSC, CSCP, CPIM, CLTD, Toyota Production System Study Tour Tokyo Japan (TPS), Lean Six Sigma Green & Black Belt by SQII, IRCA Lead Auditor & PMP by PMI
- **Corporate Training, Digital Transformation & Consulting** – Delivered corporate services globally in Supply Chain, Lean Six Sigma, ISO Standards, HR, TQM, Business Excellence, as well as digital transformation consulting through PIQC Informatics

PIQC Informatics – Where Data Meets Excellence:

PIQC Informatics, the technology and digital consulting arm of PIQC, enables organizations to achieve operational excellence, process automation, and data-driven transformation. By combining PIQC's domain expertise with advanced platforms - Informatics delivers:

Competency & HR Digitalization:

- **Comaea – Competency & Talent Management System:** Digitizes workforce skills, maps job roles and assesses competency gaps to support structured talent development.

Process Automation & ERP Implementations:

- **Odoo ERP:** End-to-end ERP for finance, HR, supply chain, CRM, training and operations
- **Microsoft Power Platform:** Automate workflows with Power Automate, build apps with Power Apps, and enhance insights with Power BI
- **Power BI Services:** Custom dashboards for real-time data-driven decisions
- **Praxie – AI Powered Process Automation** – Digitizes and automates project and business processes through AI-powered workflows, real-time dashboards and execution tools.

Continuous Quality Improvement & Supply Chain Digitalization:

- **CQI (Nebula) & Praxie** – Automating Lean, Kaizen initiatives

35
Years of Excellence

55,000
Professionals Trained

550
Consulting Projects

Some of the PIQC Clientele

Public & Private Sector Clientele



Government Institutions



Defence Sector Clientele



PIQC Global Partnerships



Decide if CLTD is Right for You?

APICS Certified in Logistics, Transportation and Distribution (CLTD) is suitable for organizations aiming to strengthen logistics execution capability across warehousing, transportation, distribution, and inventory control. It is appropriate when your teams are responsible for planning, managing, and improving logistics operations in complex, multi-location environments.

CLTD Learning Outcomes

- Apply standardized practices across logistics, warehousing, transportation, and distribution
- Improve distribution inventory control through defined policies and metrics
- Measure and enhance warehouse and transportation performance using KPIs
- Plan and manage transportation networks, including mode selection and carrier management
- Identify and mitigate logistics and transportation risks
- Execute order fulfillment with improved coordination and operational control

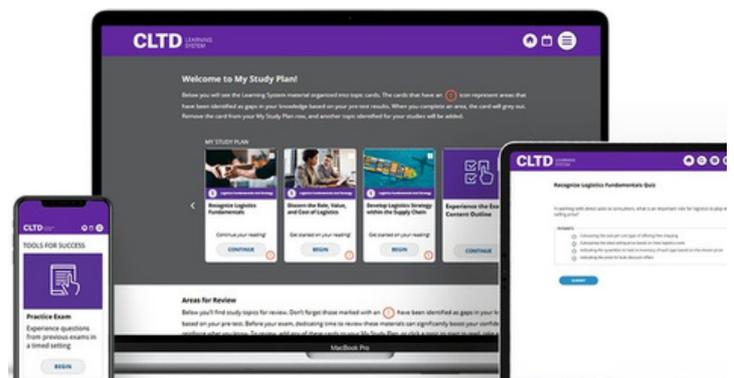
Organizational Benefits of CLTD

- Establishes a standardized, internationally benchmarked logistics framework
- Strengthens control over warehouse, transportation, and distribution operations
- Improves cost, service-level, and KPI-driven logistics performance
- Reduces operational and compliance risk in logistics-intensive functions
- Supports succession planning and role standardization across logistics teams



CLTD Success with PIQC

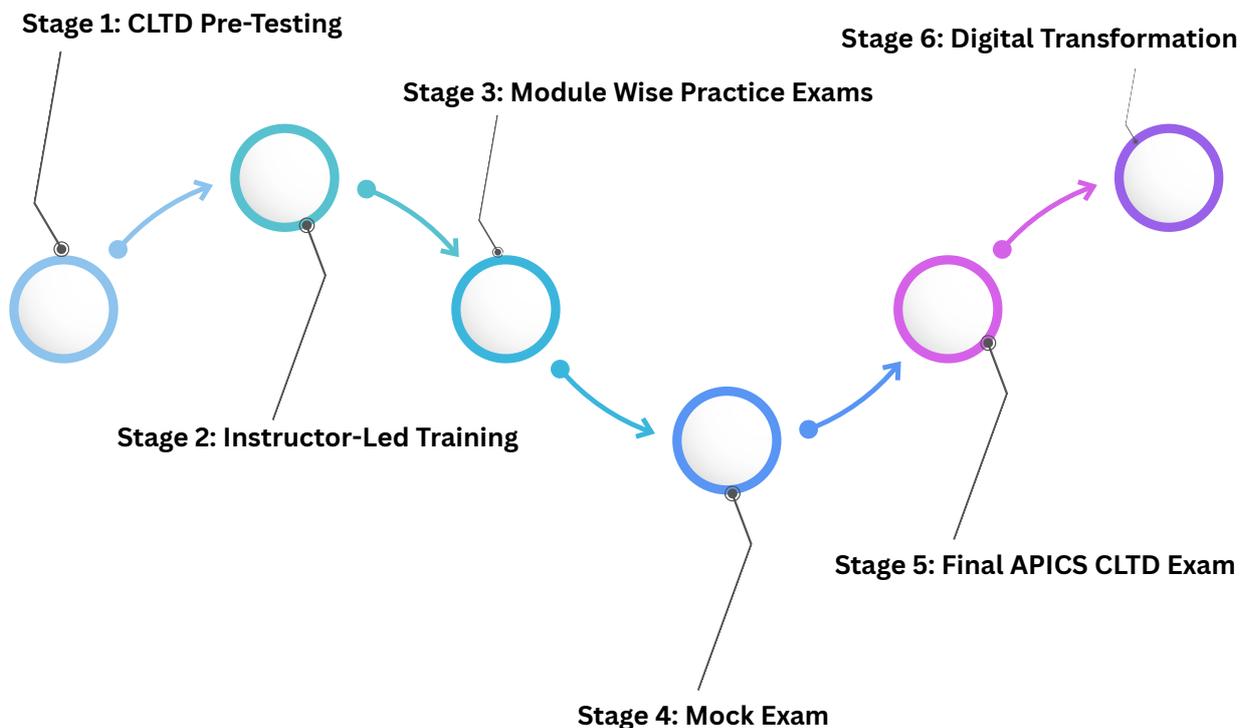
- Instructor-led training delivered by PIQC's ASCM-APICS Authorized Master Trainers
- Learning supported by official APICS-licensed materials and CLTD retired question practice banks
- Exam-focused practice and readiness assurance for first-attempt CLTD certification success



APICS CLTD V3.1 Certification Roadmap

- **Stage 1:** APICS CLTD 3.1 Pre-Testing
- **Stage 2:** Instructor-Led Training
- **Stage 3:** Weekly Module Wise Practice Exam Sessions
- **Stage 4:** Final Mock Exam based ECM APICS CLTD 3.1
- **Stage 5:** Final APICS CLTD Certification Exam at Pearson VUE Centers
- **Stage 6:** Optional – Digital Transformation Add-On

PIQC’s APICS CLTD program is designed to maximize first-attempt exam success through a structured baseline assessment mapped across all nine CLTD modules, followed by focused instructor-led training and weekly module-wise practice exams. A comprehensive final mock exam ensures readiness aligned with the APICS CLTD 3.1 Exam Content Manual. Beyond certification, PIQC offers an optional digital logistics enablement layer that embeds distribution, warehousing, and transportation best practices into daily operations. The solution benchmarks logistics roles against defined competency and job-level requirements, identifies skill gaps, and supports targeted development within the HR talent framework. It also digitizes logistics execution workflows, enabling real-time visibility of KPIs, task execution, and process compliance across warehousing, transportation, and distribution—driving improved service levels, cost control, operational discipline, and measurable logistics performance.



CLTD V3.1 Training Outline

Instructor-Led | Three-Months Online Training
 Module-Wise Exam Drills | Exam-Focused Coaching

Module 1: Logistics Fundamentals Chain and Strategy

- Recognize Logistics Fundamentals
- Discern the role, value and Cost of Logistic
- Develop Logistics strategy within supply chain
- Practice Exam Discussion Module 1

Module 2: Demand Management and Supply (Capacity Management)

- Forecast Demand
- Understand Demand Management
- Translate Demand into Logistics Planning
- Support Sales and Operations Planning
- Support Distribution Requirement Planning
- Understand master scheduling and material requirement planning
- Facilitate Sourcing and Procurement
- Practice Exam Discussion Module 2

Module 3: Customer Order Management

- Enable Customer Relationship Management
- Enable Inbound and Outbound Order Management
- Practice Exam Discussion Module 3

Module 4: Warehouse Distribution Fulfillment Center

- Identify Warehouse strategy, Ownership and roles
- Formulate Warehouse Processes and order flow
- Evaluate Warehouse facility Layout Decisions and Manage
- Incorporate Packaging
- Incorporate Material Handling and Warehouse Automation
- Practice Exam Discussion Module 4

Module 5: Inventory Management

- Understand Inventory Management Fundamentals
- Develop Inventory Strategy and Policy and Implement Inventory Control
- Practice Exam Discussion Module 5

Module 6: Transportation Management

- Understand Transportation Fundamentals
- Identify Road Transportation Characteristics
- Identify Rail Transportation Characteristics
- Identify Air Transportation Characteristics
- Identify Water (Ocean and Inland Waterway) Transportation Characteristics
- Identify Multimodal, Multi-Stop, and Characteristics of Other Modes
- Implement Transportation Management
- Conduct Transportation Administration
- Practice Exam Discussion Module 6

Module 7: Global Logistics

- Characterize the International Environment and Global Infrastructure
- Incorporate Regulations into Global Logistics Processes
- Facilitate Export/Import, Customs Clearing, and Documentation
- Understand Finance, Payment, Currency, and Tax Options/Implications
- Practice Exam Discussion Module 7

Module 8: Sustainability, Reverse Logistics & Risk Management

- Apply Sustainability Principles
- Incorporate Reverse Logistics
- Incorporate Risk Management Principles
- Practice Exam Discussion Module 8

Module 9: Logistics Framework, Metrics, Network Design, Transform

- Design the Logistics Framework
- Coordinate Strategic Performance Management
- Facilitate Facilities Planning and Network Design
- Coordinate Digital Transformation and Continuous Improvement
- Practice Exam Discussion Module 9

Final Mock Exam as per APICS CLTD 3.1 Exam Content Manual

- Final Mock Exam as per APICS CLTD 3.1 Exam Content Manual

CLTD V3.1 Exam Content Manual (ECM)

- **Format:**
150 Multiple Choice Questions (130 scored, 20 unscored)
- **Duration:**
3.5 Hours
- **Scoring:**
200–350 scale (300 to pass) ~ 85%
- **Eligibility:**
Open to all professionals (no prior requirement)
- **Exam Venue:**
APICS exams are available worldwide at Pearson VUE test centers. PIQC CLTD students can take the exam at any nearby Pearson VUE location, with all enrollments facilitated by PIQC.
For details, [click to check Pearson VUE testing centers nearby your location](#)
- **CLTD Certification Validity:**
5 years requires 75 Professional Development Units [PDUs] to renew. To maintain your APICS CLTD certification, you must earn 75 PDUs within each 5-year cycle.

CLTD Exam V3.1 Module Weightage

Modules	Topics	Weight
1	Understand Logistics Fundamentals and Strategy	10%
2	Conduct Capacity Planning and Demand Management	10%
3	Conduct Order Management	10%
4	Facilitate Inventory Management	11%
5	Conduct Warehouse Distribution / Fulfillment Center Management	12%
6	Conduct Transportation Management	15%
7	Facilitate Global Logistics	13%
8	Facilitate Logistics Network Design	10%
9	Understand Sustainability and Reverse Logistics	9%

Key Benefits

Why Choose PIQC for CLTD?

- 4,800+ CLTD-certified professionals globally since 2016
- Only Authorized Academic Partner of ASCM-APICS (USA) in Pakistan
- Only institute in Pakistan with ASCM-APICS Authorized Master Trainers eligible to teach globally
- Official APICS-licensed CLTD Learning System with full access to LMS and eBooks
- CLTD retired question practice banks and module-wise mock exam drills
- Structured exam readiness and post-training support until certification is achieved
- One CLTD exam attempt via global Pearson VUE centers
- Certification maintenance and renewal guidance
- CLTD is a globally recognized credential in logistics, transportation, and distribution across 100+ countries



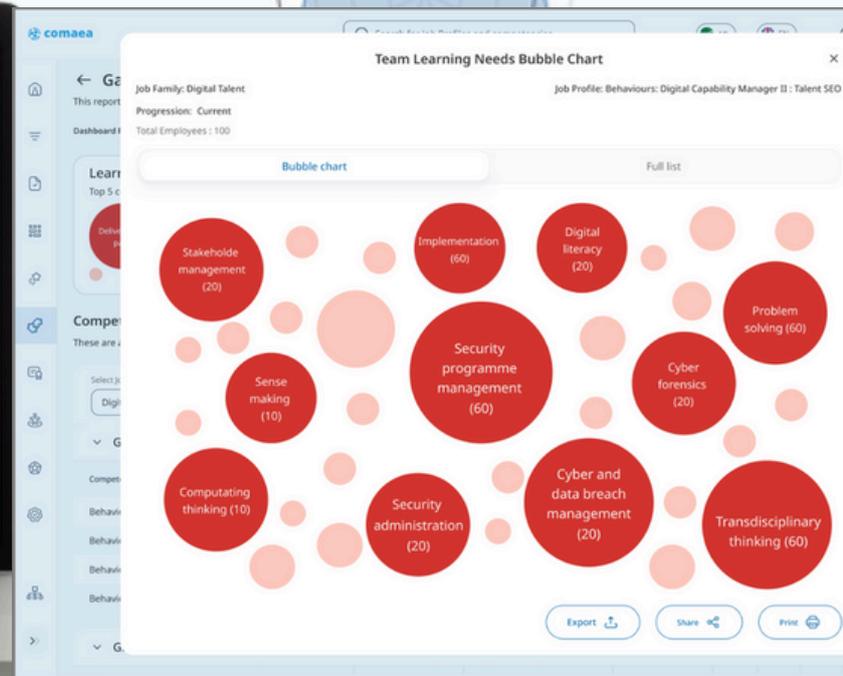
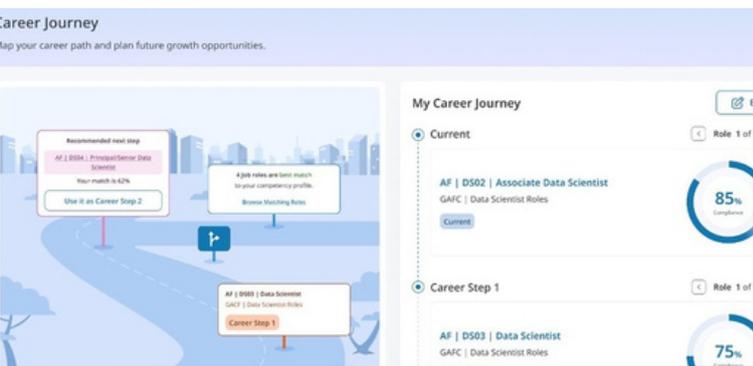
Digital Transformation

Competency Management System (Optional Enterprise Solution)

PIQC Informatics—the digital solutions arm of PIQC Institute of Quality—offers an enterprise-grade Competency Management System to help organizations develop and govern workforce capability across logistics, warehousing, transportation, distribution, inventory control and related supply chain execution functions.

The platform enables role-based logistics competency frameworks, structured capability assessments, and benchmarking against defined proficiency and job-level requirements. It provides management with real-time dashboards, competency heatmaps and prioritized development insights—supporting workforce planning, succession readiness, compliance and reduced operational risk across logistics operations.

The system integrates seamlessly with existing enterprise environments, including SAP and Oracle, aligning competency intelligence with HR and operational data without disrupting core ERP processes. Licensing, configuration, and implementation consulting services are available upon request.



Digital Transformation

Digital Supply Chain Management Solution (Optional Enterprise Solution)

PIQC Informatics—the digital solutions arm of PIQC Institute of Quality—offers an enterprise-grade Logistics and Distribution digital enablement solution designed to support organizations in standardizing, digitizing, and governing end-to-end logistics operations across warehousing, transportation, distribution, and last-mile execution.

The platform enables organizations to design and automate logistics workflows, define clear operational ownership, and monitor execution through real-time dashboards and KPI-based performance views. It delivers structured visibility into shipment status, warehouse operations, transport utilization, service levels, exceptions, and plan-versus-actual performance—supporting improved operational control, faster issue resolution, and consistent execution across multi-site logistics networks.

The solution is designed for seamless integration with existing ERP environments, including SAP and Oracle, enabling logistics-related processes, transactional data, and performance metrics to flow across systems without duplicating or replacing core ERP functionality. Licensing, configuration, and implementation consulting services are available upon request.

Simple, Intuitive Digital Processes in SaaS Software in Days

The screenshot displays the Praxie SaaS dashboard with the following components:

- Supplier Control Tower:** AI Detection & Classif., Supplier Defect Rate (73.5%), % Achieved for Year (80%), First Pass Yield, Case Fill Rate (80%), Current Stock.
- Production & Mfg:** On Time Delivery Perf., % Supplier Defect Rate (73.5%), % Achieved for Year (80%), First Pass Yield.
- OB Logistics & Ship:** On Time Delivery Perf., % Achieved for Year (80%), OTD Rate (84%), Order Fulfillment Acc.
- IB Legis & Recv:** On Time Delivery Perf., % Achieved for Year (80%), OTD Rate (84%), Order Fulfillment Acc.
- Receiver Control Tower:** AI Detection & Classif., % Supplier Defect Rate (73.5%), % Achieved for Year (80%), First Pass Yield, Case Fill Rate (80%), Current Stock.
- Tableau Order Consent...**
- Inventory Management Dashboard:**
 - Total Quantity On Hand: 4,561
 - Total Inventory Value: \$1,091,294.3
 - Active Items: 36
 - Inventory Turnover Ratio: 0.00
 - Days On Hand: 0
 - Stock Out Rate: 5.0%
 - Inventory Car: \$218,258.4
 - Inventory Value by Category: Bar chart showing values up to \$400,000.
 - Quantity on Hand by Warehouse: Pie chart showing distribution.
- Production Schedule:** Weekly Production Schedule - Monday, October 12 to December 08, 2024.
- App Description:** Inventory Turnover Ratio, Days On Hand, Stock Out Rate, Inventory Car.



**Join a Global Network
Where Logistics, Transportation &
Distribution Professionals Connect & Lead**

Click or Scan to Schedule Your 30-Min Consultation Call:



Click or Scan the QR-Code to Schedule an online 30-Min Consultation with PIQC.
Discuss your goals and check if APICS CLTD is the right fit for your organization!



PIQC INSTITUTE OF QUALITY

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