Loading Master and Marine Terminal Operations Course

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Tunis (Tunisia)



Loading Master and Marine Terminal Operations Course

Ref: 2025_239200 – 16 **Location:** Tunis (Tunisia) **Fees:** 4200 GBP

Introduction:

Loading master and marine terminal operations govern the physical, chemical, and procedural safety controls required to execute bulk liquid cargo transfers across the ship-shore interface. This one-week course equips jetty operating personnel to master vessel pre-arrival verification, marine loading arm integrity, and transfer monitoring to assemble a Marine Terminal Loading Master Operational Dossier. Delivered at practitioner depth through a hands-on inspection walkthrough, delegates apply benchmarks from the International Safety Guide for Oil Tankers and Terminals ISGOTT 6th Edition. Field teams master loading master and marine terminal operations with Blackbird Training Centre to guarantee operational safety.

Course Objectives:

- Distinguish between terminal jetty supervising operators and single point mooring pilot assistants during bulk transfer operations.
- Apply ISGOTT 6th Edition standards to execute the nine-part Ship/Shore Safety Checklist and repetitive verification cycles.
- Interpret OCIMF Mooring Equipment Guidelines MEG4 data to verify berth line arrangements and load monitoring thresholds.
- Select appropriate Marine Loading Arm configurations, insulating flanges, and emergency release systems for product transfers.
- Compare static electricity risk controls versus vapor emission management procedures to prevent manifold fire and ignition incidents.
- Justify emergency shutdown protocols and operational threshold cessations during deteriorating mooring or weather conditions.

Target Audience:

- Marine terminal jetty supervisors responsible for berth safety who must decide when to sign off pre-transfer checklists.
- Bulk liquid transfer operators responsible for loading arms who must choose appropriate connection couplers and drain procedures.
- Terminal marine cargo coordinators responsible for ship-shore operations who must evaluate custody transfer figures and pumping agreements.
- Harbour marine dispatchers responsible for berth scheduling who must judge vessel readiness before clearance alongside.



Course Outline:

Day 1: Terminal Architecture, Regulatory Foundations, and Interface Roles

- ISGOTT 6th Edition Standards: Aligning Bulk Liquid Berth Procedures with International Safety Guide Protocols
- Jetty Supervising Operators vs SPM Pilots: Delineating Operational Authority Across Fixed and Offshore Mooring Points
- OCIMF MTMSA Framework: Structuring Marine Terminal Management and Self Assessment Continuous Improvement Plans
- Terminal Pre-Arrival Verification: Screening Vessel Particulars, Manifold Dimensions, and Certificate Validity Declarations Prior Berthing
- International Port Rules: Establishing Baseline Vessel Obligations and Port Environmental Protection Directives

Day 2: Mooring Integrity, Physical Berth Security, and Transfer Hardware

- OCIMF MEG4 Criteria: Evaluating Safe Working Loads for Mooring Hooks and Line Arrangements
- Marine Loading Arms vs Flexible Hoses: Selecting Berth Product Transfer Conduits for Specific Chemical Cargoes
- Quick Connect Couplers: Applying Hydraulic Locking Mechanisms and Emergency Release Coupling Integrity Checks
- Electrical Flange Insulation: Preventing Static Accumulation and Stray Current Arcing at Transfer Manifolds
- Berth Fender Systems: Monitoring Kinetic Impact Absorption and Vessel Standoff Margins During Alongside Mooring

Day 3: Pre-Transfer Agreements, Checklists, and Transfer Execution

- Nine-Part Ship/Shore Safety Checklist: Completing Systematic Pre-Transfer Conferences, Physical Checks, and Declarations
- Repetitive Berth Checks: Enforcing Mandatory Re-Inspection Intervals Across Ongoing Pumping and Bunkering Operations
- Topping-Off Advance Warning vs Emergency Shutdown: Executing Planned Flow Cessation and Quick-Closing Valve Procedures
- Custody Transfer Measurement: Reconciling Shore Tank Gauging, Ullage Tables, and Ship-Shore Volume Variances
- Vapour Balance Control: Managing Venting Systems, Nitrogen Blanketing, and Marine Vapour Recovery Unit Operations



Day 4: Hazard Control, Atmospheric Monitoring, and Vetting Standards

- Toxic Atmosphere Monitoring: Measuring Hydrogen Sulphide and Benzene Exposure Limits in Manifold Zones
- OCIMF SIRE 2.0 Tablet Vetting: Evaluating Hardware Condition, Operational Process, and Human Factor Observations
- Hot Work Permits vs Cold Transfer Zones: Enforcing Safe Work Licensing and Isolation Protocols
- Static Electricity Dissipation: Calculating Maximum Allowable Initial Linear Flow Velocities for Static Accumulator Cargoes
- Spill Response Containment: Deploying Floating Booms, Skimmers, and Shore Manifold Scupper Drainage Plugs

Day 5: Inspection Walkthrough and Operational Safety Dossier Consolidation

- Physical Jetty Inspection Walkthrough: Auditing Marine Loading Arms, Mooring Hooks, and Earthing Connections
- Simulated Manifold Leak Response: Executing Powered Emergency Release Coupling Sequences Under Tight Drills
- Discrepancy Investigation Exercise: Resolving Ship-Shore Ullage Disagreements Using Certified Custody Transfer Calculation Worksheets
- Daytime Transfer Auditing vs Night Shift Handovers: Standardising Safety Log Entries and Communication Protocols
- Operational Dossier Finalisation: Completing the Marine Terminal Loading Master Operational Dossier for Compliance

Skills You Will Gain:

- Ship/Shore Safety Checklist Execution
- Marine Loading Arm Verification
- Mooring Load Analysis
- Custody Transfer Ullage Reconciliation
- Atmospheric Gas Detection
- Emergency Release Activation
- Ship-Shore Interface Management
- Berth Safety Auditing



Why Attend This Course:

- From relying on informal berth inspections to executing systematic audits using the restructured nine-part ISGOTT safety checklist.
- From inconsistent calculation of pumping rates to applying calibrated custody transfer equations and ullage reconciliation methods.
- From uncertain line handling verification to evaluating mooring line tension against OCIMF MEG4 load monitoring standards.
- From undocumented shift handovers to assembling a fully audited Marine Terminal Loading Master Operational Dossier.

Conclusion:

Loading master and marine terminal operations combine stringent mechanical discipline, international vetting standards, and rigorous human-factor coordination to protect bulk liquid assets. This course makes clear the technical distinctions between fixed jetty arms and offshore transfer systems, planned flow reduction and emergency breakaway activation, and atmospheric toxicity monitoring versus static electricity controls. Designed for frontline jetty supervisors and marine transfer personnel working at practitioner depth, this curriculum delivers the verification tools and procedural controls needed to ensure safe, flawless terminal operations.

Frequently Asked Questions FAQ:

What is loading master and marine terminal operations?

Loading master and marine terminal operations is the specialised discipline governing the ship-shore interface during bulk liquid cargo transfer. It encompasses pre-arrival vetting, mooring verification, transfer manifold connection, continuous safety checklist execution, cargo ullage measurement, and emergency shutdown management across tanker berths and marine oil terminals.

What is the difference between jetty supervising operators and SPM pilot assistants in loading master and marine terminal operations?

Jetty supervising operators manage transfer safety, marine loading arms, and manifold valves directly alongside fixed berth infrastructure. Single point mooring pilot assistants operate offshore at buoy terminals, overseeing floating hose string connections, hawser tension monitoring, and direct bridge communication aboard the moored vessel.



Which safety standards are covered in this loading master and marine terminal operations course?

The course applies technical safety guidelines from the International Safety Guide for Oil Tankers and Terminals ISGOTT 6th Edition, terminal governance models from the OCIMF Marine Terminal Management and Self Assessment MTMSA, and mooring integrity criteria from the OCIMF Mooring Equipment Guidelines MEG4.

Is this loading master and marine terminal operations course right for a terminal marine cargo coordinator?

Yes, terminal marine cargo coordinators benefit directly from the practitioner-depth curriculum. It equips them to audit ship-shore safety checklists, calculate custody transfer figures accurately, oversee marine loading arm operations, and coordinate emergency shutdown responses in strict compliance with current international marine terminal standards.

