



Commercial Diving Operations Management

Course: IMCA Systems, Dive Plans and Contractor Safety



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Introduction:

Commercial diving operations management, covering IMCA systems, dive plans and contractor safety, is a 1-week course for HSE and marine operations managers who commission and oversee diving contractors, ending with a Diving Operations Oversight Plan for a case organisation. Client organisations carry serious exposure when dive plans go unchallenged, diving spreads go unaudited and decompression emergency arrangements rest on assumptions. Nominees already approve marine work packages or contractor safety documents and work through case studies built on dive plans, audit reports and incident files. CoreConcept Training Center delivers this commercial diving operations management course.

Course Objectives:

- Allocate duties between the client, the diving contractor and the diving supervisor for each diving operation the organisation commissions
- Evaluate surface-supplied air and saturation diving spreads against IMCA guidance and DESIGN audit documents
- Challenge a dive project plan, its hazard identification and its task risk assessment before diving is approved
- Verify dive team manning, supervisor appointment, diver competence and medical fitness records
- Assess emergency arrangements for decompression illness, recompression treatment and hyperbaric evacuation
- Prequalify and audit diving contractors and track corrective actions to closure

Target Audience:

- Managers responsible for HSE assurance of offshore, port and marine construction projects that use divers
 - Marine operations managers responsible for vessels, barges and worksites where diving takes place
 - Project and construction managers responsible for subsea, jetty, pipeline and harbour works packages
 - Contracts and procurement managers responsible for tendering and managing diving service contracts
 - Asset integrity managers responsible for underwater inspection and repair campaigns
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Course Outline:

Day 1: Commercial Diving Foundations and Client Accountability

- Commercial Diving Modes Compared Across Offshore, Port and Inland Work
- Client, Diving Contractor and Diving Supervisor Duty Allocation
- Diving Hazard Profile Covering Pressure, Gas and Entrapment
- Diving Incident Case Review Across Marine Construction Projects
- Current Diving Oversight Baseline Using a Client Gap Checklist

Day 2: IMCA Guidance and Diving System Architecture

- IMCA International Code of Practice for Offshore Diving Structure
- Surface-Supplied Air Diving Spread Components and Gas Supply
- Saturation Diving System Chambers, Closed Bell and Launch Recovery
- Heliox Gas Management, Reclaim and Bailout Gas Provision
- IMCA DESIGN Audit Documents for Diving Equipment Verification

Day 3: Dive Planning, Manning and Supervision in Practice

- Dive Project Plan Content, Approval Routes and Revision Control
- Diving Hazard Identification and Task Risk Assessment Worksheet
- Dive Team Manning Levels, Standby Diver and Tender Roles
- Diving Supervisor Appointment, Control Point Duties and Logbook Review
- Diver Competence, Medical Fitness and Certification Record Checks

Day 4: Diving Emergencies, ROV Interfaces and Contractor Assurance

- Decompression Illness, Barotrauma and Arterial Gas Embolism Recognition
- Recompression Chamber Treatment and Diving Medical Support Arrangements
- Hyperbaric Evacuation Unit and Saturation Rescue Planning
- ROV and Diver Shared Worksite Isolation and Communication Rules
- Diving Contractor Prequalification, Audit Findings and Corrective Action Tracking

Day 5: Case Study Producing a Diving Operations Oversight Plan

- Case Organisation Diving Scope and Contractor Tender Review
 - Case Dive Plan and Risk Assessment Challenge Session
 - Case Diving Spread Audit Using DESIGN Checklist Findings
 - Case Diving Emergency Scenario Decision Review
 - Diving Operations Oversight Plan Completion and Peer Review
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Skills You Will Gain:

- Diving Duty Allocation
- Diving Spread Evaluation
- Dive Plan Challenge
- Diving Risk Assessment Review
- Dive Team Manning Verification
- Diving Medical Emergency Planning
- Diver and ROV Interface Control
- Diving Contractor Auditing

Why Attend This Course:

- Deliver a Diving Operations Oversight Plan for a case organisation to the HSE director and the project sponsor for approval
- Decide whether a dive plan, a diving spread and its emergency arrangements are fit for approval before divers enter the water
- Avoid diving fatalities, stopped campaigns and contract disputes caused by unaudited spreads and unclear supervisor authority
- Pass on the client gap checklist, dive plan challenge questions and contractor audit tracker to HSE and project colleagues

Conclusion:

Back at work, the participant presents the Diving Operations Oversight Plan to the HSE director, the project sponsor and the contracts lead. The plan guides decisions on which diving contractors to prequalify, which dive plans and spreads to approve, what manning and emergency arrangements to require and when to stop diving work. After the first diving campaign under the plan, the organisation should review audit findings, closed corrective actions, supervisor log entries and any medical events against the plan and update its approval criteria.

Frequently Asked Questions FAQ:

What should participants know before the commercial diving operations management course?

Participants should already approve marine work packages, contractor safety documents or project HSE plans. No diving qualification is needed. An anonymised dive plan, contractor audit report or diving incident file from the participant's organisation helps during the case work.

How does commercial diving operations management differ from a diver or diving supervisor certification course?

Commercial diving operations management trains the client-side manager to plan, approve and oversee diving contractors. Diver and supervisor certification courses train people to dive or to run the dive control point, and focus on hands-on technique rather than contractor oversight.

Why does commercial diving operations management treat saturation diving differently from surface-supplied air diving?

Saturation divers live under pressure in chambers, transfer by closed bell and decompress once at the end of the work period. This creates long exposure, gas management and hyperbaric evacuation needs that surface-supplied air diving does not carry.

What do participants take back from the commercial diving operations management course?

Participants take back a Diving Operations Oversight Plan for a case organisation, with a duty allocation chart, dive plan challenge questions, a diving spread audit record, an emergency arrangements review and a contractor corrective action tracker.
