



Swimming Pool and Aquatic Facility Management Course: Water Treatment and Lifeguard Supervision

11 – 15 October 2026

Jeddah - Corniche four-star



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Introduction:

Swimming pool and aquatic facility management is a 5-day course for teams responsible for leisure centre, hotel, residential compound and club pools, ending with a Pool Safety Operating Procedure and Plant Room Plan for a case facility. Organisations face drownings, chemical exposure incidents, cloudy water closures and outbreak complaints when disinfection goes unchecked, filters are neglected, lifeguard cover is thin and no written operating procedure exists. Nominees already supervise pool staff or plant and learn through inspection walkthroughs of pool halls and plant rooms. CoreConcept Training Center delivers this swimming pool management course.

Course Objectives:

- Assess drowning, entrapment, slip and chemical hazards across leisure, hotel, compound and spa pools and record them in a pool risk assessment
- Control pool water chemistry by balancing free and combined chlorine, pH, alkalinity and calcium hardness against the facility's treatment targets
- Operate filtration and circulation plant, set backwash and turnover routines and keep water testing records that stand up to inspection
- Set bather load limits, lifeguard supervision levels and rotation rosters and write them into a normal operating procedure
- Manage chemical storage, emergency action, faecal and vomit incidents, programming, customer complaints and seasonal shutdowns at management level
- Produce a Pool Safety Operating Procedure and Plant Room Plan for a case facility

Target Audience:

- Managers responsible for the daily operation of public, leisure centre and club swimming pools
 - Recreation managers responsible for pools, spas and splash areas in hotels and residential compounds
 - Duty managers responsible for lifeguard teams, poolside rosters and customer service
 - Supervisors responsible for pool plant rooms, chemical dosing and water testing records
 - Facility managers responsible for contracting and auditing pool maintenance and lifeguard service providers
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Course Outline:

Day 1: Aquatic Facility Types, Hazards and the Pool Risk Baseline

- Aquatic Facility Typology for Leisure, Hotel, Compound and Spa Pools
- Drowning, Entrapment and Slip Hazard Register for Pool Halls
- Pool Risk Assessment Matrix for Deep Water and Diving Areas
- Bather Profile Analysis for Families, Swimmers, Clubs and Hydrotherapy
- Pool Safety Baseline Survey Using a Poolside Inspection Checklist

Day 2: Pool Water Chemistry, Disinfection and Treatment Codes

- Free and Combined Chlorine Balance and Chloramine Control
- pH, Total Alkalinity and Calcium Hardness Water Balance Index
- Breakpoint Chlorination and Superchlorination Decision Criteria
- Model Aquatic Health Codes Applied to Public Pool Operation
- Pool Water Treatment Codes of Practice for Quality Standards

Day 3: Filtration, Circulation, Testing and Daily Pool Operation

- Sand and Cartridge Filter Backwash Cycles and Pressure Readings
- Turnover Period Calculation and Circulation Pump Flow Checks
- Poolside Water Testing Routine with DPD Photometer Records
- Bather Load Limits and Normal Operating Procedure Drafting
- Lifeguard Supervision Levels, Zone Scanning and Rotation Rosters

Day 4: Chemical Safety, Emergencies, Hygiene and Facility Upkeep

- Chemical Store Segregation, Delivery Controls and Spill Kits
- Emergency Action Plan for Drowning, Chemical Release and Evacuation
- Faecal and Vomit Incident Response with Cryptosporidium Closure Rules
- Programming Timetable and Customer Complaint Handling for Pool Users
- Planned Maintenance Calendar and Seasonal Shutdown and Recommissioning Steps

Day 5: Inspection Walkthrough and the Pool Safety Operating Procedure

- Case Leisure Centre Pool Hall and Plant Room Walkthrough
 - Case Hotel and Compound Outdoor Pool Safety Walkthrough
 - Plant Room Plan with Dosing, Filtration and Testing Duties
 - Lifeguard Deployment Plan and Emergency Drill Schedule for Case Facility
 - Pool Safety Operating Procedure Completion and Peer Defence
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Skills You Will Gain:

- Pool Hazard Identification
- Pool Water Balance Control
- Disinfection Residual Management
- Filtration and Circulation Oversight
- Lifeguard Deployment Planning
- Pool Chemical Safety Management
- Faecal Incident Response
- Aquatic Programme Scheduling

Why Attend This Course:

- Deliver a Pool Safety Operating Procedure and Plant Room Plan for a case facility to the general manager, recreation director or compound owner
- Decide when to close, superchlorinate or reopen a pool using test results, bather load and incident evidence rather than guesswork
- Avoid drowning incidents, chemical exposure, outbreak complaints and unplanned closures caused by poor water treatment and thin supervision
- Share testing logs, lifeguard rosters, incident checklists and plant room routines with poolside and maintenance colleagues

Conclusion:

Back at work, the participant gives the general manager, recreation director or compound owner a Pool Safety Operating Procedure and Plant Room Plan that sets bather load limits, supervision levels, water treatment targets, testing frequencies, chemical storage controls and emergency actions. Management uses it to approve lifeguard staffing, plant room repairs and maintenance contracts and to brief new staff. After the first season under the procedure, the unit should review water test records, incident and complaint logs, drill results and closure days against the agreed targets.

Frequently Asked Questions FAQ:

What should participants know before a swimming pool and aquatic facility management course?

Participants should already supervise pool staff, lifeguards or plant at a leisure, hotel, compound or club pool. No chemistry background is needed. Bringing recent water test logs, a lifeguard roster or an existing operating procedure helps them apply the walkthroughs to their own facility.

How does swimming pool and aquatic facility management differ from a general hotel engineering or beach operations course?

It concentrates on the pool itself: water chemistry, filtration, testing, bather load, lifeguard supervision, pool emergencies and hygiene incidents. Hotel engineering courses cover all building plant with pools as one item, and beach courses manage open shorelines, tides and concessions.

Why does swimming pool and aquatic facility management depend on combined chlorine control as well as free chlorine?

Combined chlorine forms when chlorine reacts with sweat and urine and causes the irritating smell and eye discomfort bathers complain about. Keeping free chlorine adequate while removing combined chlorine through dilution, breakpoint dosing and good bather hygiene keeps water safe and comfortable.

What do participants take back from a swimming pool and aquatic facility management course?

Participants take back a Pool Safety Operating Procedure and Plant Room Plan for a case facility, with a risk assessment, water treatment targets, testing schedule, lifeguard deployment plan, emergency action plan and maintenance calendar they can adapt to their own pools.