CORE CONCEPT

Cardiac Centre and Cath Lab Management Course: Door-to-Balloon and Lab Utilisation

27 September – 1 October 2027
Barcelona - Eixample district four-star

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Ref: 1971_29234 **Date:** 27 September – 1 October 2027 **Location:** Barcelona - Eixample district four-star **Fees:** 23500 SAR

Introduction:

Cardiac centre and cath lab management, covering door-to-balloon performance and lab utilisation, is a 1-week course for cardiac service line, catheterisation laboratory and cardiac nursing management teams that ends with a Cath Lab Performance and STEMI Pathway Plan for a case cardiac centre. Cardiac centres lose time and money when STEMI activation stalls between ambulance and lab, rooms sit idle between cases and consigned stents expire. Nominees already run cath lab sessions, rosters or cardiac units and work through case studies on activation logs, room timestamps and stock data. CoreConcept Training Center delivers this cath lab management course.

Course Objectives:

- Map the cardiac service line and profile cath lab case mix, room time and STEMI activation data as a performance baseline
- Design STEMI network activation rules, single-call protocols and handover segments that shorten the door-to-balloon interval
- Plan elective cath lab schedules, room turnaround targets and emergency add-on rules that raise lab utilisation
- Control stents, balloons and other high-cost devices through par levels, consignment terms, expiry tracking and implant traceability
- Govern radiation dose monitoring, on-call rosters and staff skill mix at management level
- Benchmark outcomes with registry data and report cardiac service line KPIs in a Cath Lab Performance and STEMI Pathway Plan

Target Audience:

- Cardiac service line management teams accountable for cardiac centre performance, budgets and network agreements
- Cath lab management teams responsible for room schedules, case turnaround and device stock
- Cardiac nursing leadership teams responsible for lab, recovery and coronary care staffing and rosters
- Cardiac quality and registry teams responsible for activation logs, outcome data and benchmarking reports
- Emergency transfer coordination management teams responsible for STEMI referrals and inter-site handovers

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Course Outline:

Day 1: Cardiac Service Line Structure and Cath Lab Baseline Review

- Cardiac Service Line Model Linking Emergency, Cath Lab and Wards
- Cath Lab Case Mix Profile for Diagnostic, PCI and Device Work
- Cath Lab Room Timestamp Log From Patient-In to Room Ready
- STEMI Activation Log Review Against the Door-to-Balloon Interval
- Cardiac Centre Baseline Scorecard for Volumes, Delays and Spend

Day 2: STEMI Network Models, Activation Rules and Door-to-Balloon Methods

- Hub-and-Spoke STEMI Network Roles for Referring and Receiving Sites
- Single-Call Cath Lab Activation Protocol and Call Tree Design
- Prehospital 12-Lead ECG Transmission and Prior Notification Routine
- 30-30-30 Rule Splitting the Door-to-Balloon Interval by Handover
- Direct-to-Lab Transfer Pathway Bypassing the Emergency Department

Day 3: Cath Lab Scheduling, Room Turnaround and Device Inventory Control

- Elective Case Scheduling Templates With Procedure Duration Bands
- Room Turnaround Measurement Between Consecutive Cath Lab Cases
- Emergency Add-On Slot Rules Protecting Elective Lab Sessions
- Stent and Balloon Par Levels With Consignment Stock Agreements
- Device Expiry Tracking and Barcode Implant Traceability Records

Day 4: Radiation Governance, On-Call Rosters, Cost and Registry Benchmarking

- Staff Dosimeter and Patient Dose Review by Radiation Committee
- On-Call Cath Lab Team Roster With Call-In Arrival Standard
- Cardiac Nurse and Technologist Skill Mix for Lab Roles
- Cost per Procedure Model With Device, Staff and Room Time
- Registry-Based Outcome Benchmarking Against Peer Cardiac Centres

Day 5: Case Study Work on the Cath Lab Performance and STEMI Pathway Plan

- Case Centre Activation Delays Traced Through Door-to-Balloon Segments
- Case Lab Utilisation and Room Turnaround Gap Analysis
- Case Device Stock Write-Off and On-Call Roster Actions
- Cardiac Service Line KPI Dashboard With Definitions and Thresholds
- Cath Lab Performance and STEMI Pathway Plan Completion and Peer Review

Skills You Will Gain:

- STEMI Network Coordination
- Door-to-Balloon Segment Analysis
- Cath Lab Session Scheduling
- Room Turnaround Monitoring
- High-Cost Device Stock Control
- Radiation Dose Governance
- On-Call Roster Planning
- Registry Outcome Benchmarking

Why Attend This Course:

- Deliver a Cath Lab Performance and STEMI Pathway Plan to the cardiac centre director and the hospital executive committee for approval
- Decide which elective sessions, add-on slots and on-call arrangements to change using room timestamps and activation data
- Avoid reperfusion delays, idle procedure rooms and expired consigned devices that raise cost per procedure
- Equip cath lab coordinators, charge nurses and registry staff with activation logs, turnaround sheets and stock count templates

Conclusion:

Back at work, the participant presents the Cath Lab Performance and STEMI Pathway Plan to the cardiac centre director, the interventional lead and the hospital executive committee. They use it to approve activation rules with referring sites, elective session templates, device par levels and consignment terms, on-call rosters and the cardiac service line KPI dashboard, while cath lab managers review that dashboard at weekly performance huddles. After the first quarter, the centre should compare door-to-balloon segments, room utilisation, turnaround, device write-offs and registry outcomes against the baseline scorecard.

Frequently Asked Questions FAQ:

What should participants know before the cardiac centre and cath lab management course?

Participants should already manage a cath lab, cardiac unit, STEMI referral desk or cardiac registry. No clinical procedure or treatment protocol is taught. Bringing anonymised activation logs, room timestamps or device stock reports helps them apply the case studies to their own centre.

How does cardiac centre and cath lab management differ from an operating theatre or radiology department management course?

It manages the cardiac service line around emergency STEMI activation, interventional room time, high-cost implant stock and outcome registries. Theatre and imaging department courses run surgical lists or scanner services, where emergency reperfusion timing and device consignment play little part.

Why does door-to-balloon time matter in cardiac centre and cath lab management?

Door-to-balloon time measures how fast a STEMI patient reaches reperfusion after arrival, and delays increase heart muscle damage. Splitting the interval into ambulance, emergency department and lab segments shows managers which handover to fix first.

What do participants take back from the cardiac centre and cath lab management course?

Participants take back a Cath Lab Performance and STEMI Pathway Plan with activation rules, session templates, device par levels, an on-call roster model, a cost per procedure estimate and a KPI dashboard they can adapt to their own cardiac centre.