Root Cause Analysis Training Abu Dhabi

Service Objectives

NPM's scenario-driven training builds investigation competency aligned to Abu Dhabi's industrial realities and OSHAD requirements.

- Enable rigorous, evidence-based incident investigations to prevent recurrence and demonstrate due diligence.
- Apply OSHAD-aligned incident classification, notification, and documentation frameworks.
- Use structured methods (5 Whys, Fishbone/Ishikawa, Fault Tree, BowTie) to expose systemic, human, and organisational contributors.
- Translate findings into risk-based CAPA integrated with permit-to-work, management of change, and competency systems.
- Strengthen interviewing, witness management, scene preservation, and reduce confirmation bias.
- Align outputs with ISO 45001 and ISO 9001 clause 10; verify CAPA effectiveness.

> Abu Dhabi context is embedded throughout (OSHAD reporting, Civil Defence interfaces, KEZAD/ICAD site rules). Each module concludes with a practical job aid. Participants receive an NPM Certificate of Completion upon successful assessment.

Who This Service Is For

- Organisations operating in Abu Dhabi that must evidence due diligence after incidents, near misses, or process deviations.
- HSE managers, plant/operations managers, maintenance superintendents, QA/QC leaders, frontline supervisors.
- Sectors: oil and gas (onshore/offshore), petrochemicals, utilities (power/water), EPC projects, logistics hubs supporting Khalifa Port and KEZAD.
- Sites across ICAD, Mussafah, KEZAD/KIZAD, and Ruwais-linked supply chains where high-energy tasks elevate consequence potential.
- Operations with OSHAD reporting or internal process safety KPIs; organisations integrating ISO 45001 and ISO 9001 investigations and nonconformance management.
- Asset-intensive work (rotating equipment, lifting operations, confined space) seeking robust engineering and procedural safeguards.

Duration & Process Overview

- One-day Foundations: awareness and method orientation.
- Two-day Practitioner: full cycle practice from evidence to CAPA.
- Three-day Advanced: complex events and barrier management integration.

- Delivery options: hybrid (virtual primers + on-site workshops), split sessions to suit shutdowns/turnarounds; typical cohorts 10–16; scalable via parallel facilitators; pre-delivery needs analysis and sector tailoring.

Methodology

Scenario-driven modules mirror Abu Dhabi use cases (PTW breaches, equipment failures, process upsets, logistics incidents, contractor coordination).

Phase	Objective	Deliverable
RCA Foundations and Governance	Apply incident taxonomy, align to OSHAD, reduce bias in early scoping.	Governance checklist/job aid.
Evidence Collection & Interviewing	Control the scene; capture photo/video; maintain chain-of-custody; conduct interviews.	Evidence and interview checklists.
Causal Analysis Methods	Use 5 Whys, Fishbone, Fault Tree, and BowTie; link causes to barriers.	Analysis templates.
Human & Organisational Factors	Assess procedures, supervision, workload, competency, and culture factors.	HOF prompt sheet.
CAPA Design & Effectiveness	Define risk-based actions, ownership, and verification metrics.	CAPA template with verification metrics.
Process Safety RCA	Evaluate barrier health, SIFs, alarms, interlocks; link to MOC.	Barrier mapping aid.

Localisation & Assessment

- Exercises reference OSHAD reporting, Civil Defence interfaces, and KEZAD/ICAD site rules; final scenario-based evaluation covers evidence to CAPA design.