# NPORS 360 Excavator Operator Training Course

7 – 11 December 2026
Dubai - Five-star CBD venue



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**Ref:** 2252_31286 **Date:** 7 – 11 December 2026 **Location:** Dubai - Five-star CBD venue **Fees:** 21450 SAR

## Introduction:

NPORS 360 Excavator Operator Training Course is a one-week course for plant operators and earthmoving equipment technicians, culminating in a 360 Excavator Safe Operating and Pre-Use Inspection Dossier. Unstandardised plant operations frequently trigger catastrophic trench collapses, struck-by utility strikes, machine rollovers, and severe regulatory work stoppages on major industrial and infrastructure projects. Nominees already operate basic hydraulic earthmoving machinery, perform routine engine checks, and position attachments on active civil work fronts, with instruction conducted through an inspection walkthrough. CoreConcept Training Center delivers this NPORS 360 Excavator Operator Training Course to establish verified operational compliance across complex site excavations.

## Course Objectives:

- Execute systematic pre-use walkaround checks and functional safety tests on 360 excavators under NPORS N202 standards
- Interpret manufacturer load charts and rated capacity indicators to verify lifting limits in line with Aramco GI 7.030
- Implement statutory operator-assistant signalling protocols and exclusion zones meeting national occupational safety standards
- Excavate vertical trenches, grade formations, and manage earthworks batters safely across variable ground conditions
- Direct heavy equipment refuelling, transport tie-down securing, and emergency shutdown procedures according to SASO machinery safety requirements

## Target Audience:

- Plant operators responsible for operating tracked and wheeled 360 excavators on civil infrastructure and energy sites
- Earthmoving equipment technicians responsible for pre-shift mechanical inspections and routine plant maintenance verification
- Excavation specialists responsible for grading, trenching, battering, and utility exposure works within active construction zones
- Lifting and plant operatives responsible for slinging loads and operating excavators as lifting appliances under lifting supervisors

## Course Outline:

### Day 1: Excavator Architecture, Safety Governance, and Regulatory Compliance

- Npors N202 Scheme Rules Aligning Plant Operator Qualifications
- Saso Herc Licensing Guidelines Navigating Operator Account Requirements
- Aramco Gi 7025 Standards Mandating Operator Performance Tests
- Mhrsd High Risk Work Regulations Classifying Heavy Machinery Occupations
- National Osh Standards Appointing Qualified Ground Movement Assistants

### Day 2: Pre-Start Verification, Plant Components, and Stability Dynamics

- Saso Technical Machinery Rules Conducting Visual Structural Integrity Inspections
- Iso 12117 Rops Criteria Evaluating Cabin Operator Restraint Systems
- Hydraulic Fluid System Audits Monitoring Pressure Hoses and Valves
- Track Tension and Undercarriage Gauges Measuring Track Wear Limits
- Engine Compartment Isolation Checks Enforcing Statutory Refuelling Shutdown Protocols

### Day 3: Operational Maneuvering, Trenching Procedures, and Ground Assessment

- Ciria C97 Ground Engineering Methods Classifying Soil Stability Characteristics
- Npors N202 Maneuvering Standards Navigating Adverse Gradient Work Slopes
- Laser Level Depth Monitoring Executing Precision Trench Batter Excavations
- Pas 128 Subsurface Utility Mapping Avoiding Buried Infrastructure Strikes
- Safe Spoil Placement Rules Maintaining Stable Excavation Crest Clearances

### Day 4: Lifting Appliance Operations, Advanced Attachments, and Rigging Limits

- Aramco Gi 7030 Mandates Establishing Object Handling Lift Plans
- Npors N402 Slinger Signaller Standards Standardising Hand and Radio Communications
- Rated Capacity Indicator Calibrations Validating Safe Working Load Limits
- Quick Hitch Mechanism Audits Verifying Positive Lock Indicator Pins
- Leea Lifting Accessory Guidelines Inspecting Slings Shackles and Clamps

### Day 5: Inspection Walkthrough and Operational Dossier Sign-Off

- Inspection Walkthrough Protocol Assessing Machine Operating Clearances and Defect Status
- Npors Practical Operating Walkthrough Testing Excavator Formation Grading Tolerances
- Leea Rigging Walkthrough Methods Validating Suspended Object Travel Safety
- Emergency Shutdown Walkthrough Drills Testing Ground Level Isolator Accessibility
- 360 Excavator Safe Operating Dossier Compiling Verified Site Handover Documentation

## Skills You Will Gain:

- Excavator Pre-Use Walkaround Inspection
- Earthworks Formation and Batter Excavation
- Rated Capacity Chart Interpretation
- Ground Movement Assistant Signalling Coordination
- Quick Hitch Lock Verification
- Buried Utility Strike Avoidance
- Plant Transport Tie-Down Securing
- Hydraulic System Integrity Auditing

## Why Attend This Course:

- Deliver a verified 360 Excavator Safe Operating and Pre-Use Inspection Dossier to plant managers and health and safety auditors to sanction machine site deployment.
- Decide whether ground conditions, trench depths, and load weights permit safe operation without risk of machine overturn or structural collapse.
- Avoid fatal plant rollovers, underground utility strikes, and project shutdown penalties arising from unlicensed operator deployment.
- Transfer standardised pre-shift inspection checklists, exclusion zone protocols, and banksperson hand signals to plant crew members.

## Conclusion:

Upon return to site, the organisation uses the 360 Excavator Safe Operating and Pre-Use Inspection Dossier to validate machine deployment readiness and audit operator competency. Plant directors, site safety managers, and equipment supervisors use this deliverable to approve daily earthmoving tasks, verify hitch lock safety, and clear machines for critical infrastructure corridors. One month following operational integration, the plant safety committee should review daily inspection defect logs, ground stability controls, and near-miss excavation reports to confirm site compliance with mandatory plant safety standards.

## Frequently Asked Questions FAQ:

### Which roles should an organisation nominate for the NPORS 360 Excavator Operator Training Course?

Plant operators, earthmoving machinery drivers, and civil excavation operatives should attend. Nominees are directly responsible for operating tracked or wheeled 360 hydraulic excavators, performing daily pre-use maintenance inspections, positioning bucket attachments, and conducting foundation trenching or utility excavations across active construction sites.

## What should nominees already do at work before attending the NPORS 360 Excavator Operator Training Course?

Nominees should already drive basic heavy plant machinery, execute basic hydraulic lever maneuvers, check fluid levels, and work alongside site ground personnel. Foundational familiarity with site traffic management plans and personal protective equipment protocols ensures candidates can immediately apply safe operating guidelines.

## What does the organisation receive when the participant returns from the NPORS 360 Excavator Operator Training Course?

The organisation receives a 360 Excavator Safe Operating and Pre-Use Inspection Dossier. This package includes verified daily walkaround inspection records, manufacturer load chart compliance sheets, hitch security logs, and a site maneuvering risk assessment ready for immediate health and safety review.

## Which standards and frameworks does the NPORS 360 Excavator Operator Training Course follow?

The course follows the National Plant Operators Registration Scheme standards, incorporating SASO Technical Regulations for Machinery Safety Part 2, Aramco GI 7.025 plant certification principles, Aramco GI 7.030 lifting requirements, and national occupational safety and health heavy equipment directives.