



# Vehicle Periodic Technical Inspection Centre Management Course: Test Lanes and Defect Decisions

14 – 18 March 2027

Dammam - Eastern Province five-star



## Vehicle Periodic Technical Inspection Centre Management Course: Test Lanes and Defect Decisions

**Ref:** 1504\_24538 **Date:** 14 – 18 March 2027 **Location:** Dammam - Eastern Province five-star **Fees:** 19500 SAR

### Introduction:

Vehicle periodic technical inspection centre management, covering test lanes and defect decisions, is a 5-day course for centre managers, lane supervisors and senior inspectors that ends with an Inspection Centre Quality and Throughput Improvement Plan for a case centre. Centres lose public trust and revenue when roller brake readings drift, defect grading varies between inspectors, queues build at peak hours and certificate fraud goes undetected. Nominees already run or supervise inspection lanes, and each day is taught through walkthroughs of lanes, test equipment, inspection records and customer flows. CoreConcept Training Center delivers this vehicle periodic technical inspection course.

### Course Objectives:

- Explain the road safety and emissions purpose of periodic roadworthiness inspection and map the inspection items checked for each vehicle category
- Organise test lane layout, equipment sequence and staffing so that brake, suspension, side-slip, headlamp and exhaust tests run safely and in order
- Apply consistent defect classification and pass, re-inspection or prohibition decisions using roller brake tester, opacimeter and visual inspection results
- Control equipment calibration, inspector competence, re-inspection sampling and anti-fraud checks that protect the credibility of every certificate
- Analyse appointment demand, lane cycle time, first-time pass rates and centre revenue and cost to raise throughput and margin
- Produce an Inspection Centre Quality and Throughput Improvement Plan with lane KPIs, quality controls and owners for a case centre

### Target Audience:

- Managers accountable for the results, staffing and customer service of one or more vehicle inspection centres
  - Lane supervisors responsible for test sequence, lane safety and the daily output of inspection teams
  - Senior inspectors who make difficult defect decisions, coach new inspectors and review inspection records
  - Quality and technical staff who manage test equipment calibration, inspection audits and complaint investigations
  - Operations planners responsible for appointment booking, lane capacity and peak-day scheduling across inspection sites
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## **Course Outline:**

### **Day 1: Periodic Roadworthiness Inspection Purpose and Centre Landscape**

- Road Safety and Emissions Rationale Behind Periodic Vehicle Inspection
- Inspection Item Lists From Identification to Chassis and Seat Belts
- Vehicle Category Matrix for Cars, Motorcycles, Trucks and Trailers
- Inspection Intervals for Private and Commercial Vehicles Compared
- Current-State Centre Profile Using Lane Output and Pass Rates

### **Day 2: Test Lane Design and Inspection Equipment Principles**

- Light and Heavy Vehicle Test Lane Layout and Pit Design
- Roller Brake Tester Force, Imbalance and Efficiency Measurement Principles
- Suspension Tester and Side-Slip Plate Readings for Axle Checks
- Headlamp Aligner Beam Pattern and Aim Assessment Method
- Exhaust Gas Analyser and Smoke Opacimeter Free Acceleration Test

### **Day 3: Inspection Procedures, Defect Grading and Pass or Fail Decisions**

- Step-by-Step Lane Procedure From Vehicle Identification to Underbody
- Minor, Major and Dangerous Defect Classification Rules Applied
- Pass, Re-Inspection and Prohibition Decision Tree for Inspectors
- Electric and Hybrid Vehicle Inspection Safety Precautions at Overview
- Inspection Report and Certificate Content With Anti-Fraud Verification Code

### **Day 4: Quality Control, Impartiality, Anti-Fraud and Centre Economics**

- Test Equipment Calibration Schedule and Daily Verification Checks
- Inspector Competence Matrix, Witnessed Inspections and Grading Consistency Audits
- Impartiality Safeguards and ISO/IEC 17020 Requirements at a Glance
- Certificate Fraud Indicators, Photo Evidence and Data Anomaly Review
- Appointment Booking, Lane Cycle Time and Centre P&L Model

### **Day 5: Inspection Walkthrough Building a Quality and Throughput Improvement Plan**

- Case Centre Lane Walkthrough Against Layout and Equipment Criteria
  - Case Inspection Records Review for Defect Grading Variation
  - Case Peak-Day Queue and Lane Utilisation Bottleneck Analysis
  - Centre KPI Dashboard With First-Time Pass and Waiting Time
  - Quality and Throughput Improvement Plan Completion and Defence
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## Skills You Will Gain:

- Test Lane Planning
- Brake Test Interpretation
- Emission Test Supervision
- Defect Severity Grading
- Calibration Control
- Inspection Fraud Detection
- Lane Capacity Analysis
- Inspection Centre Financial Review

## Why Attend This Course:

- Deliver an Inspection Centre Quality and Throughput Improvement Plan for a case centre to the centre manager and the operator's quality lead
- Decide when a brake, suspension or emission reading justifies a pass, a re-inspection or a prohibition and how to settle grading disputes
- Avoid wrong certificates, drifting test equipment and long peak-day queues that damage public trust and lose inspection revenue
- Share lane procedures, defect grading guides, calibration logs and KPI dashboards with supervisors and inspectors across the centre

## Conclusion:

Back at work, the participant hands the Inspection Centre Quality and Throughput Improvement Plan to the centre manager, the quality lead and the lane supervisors. They use it to set lane staffing and booking slots, fix calibration and re-inspection sampling routines, align defect grading between inspectors and decide which equipment or layout changes to fund. After the first full month under the plan, the centre should compare first-time pass rates, grading consistency, waiting times, complaints and revenue per lane against the baseline and adjust the actions that have not delivered.

## Frequently Asked Questions FAQ:

### What should participants know before the vehicle periodic technical inspection centre management course?

Participants should already run, supervise or perform vehicle inspections and know their own lane procedures and test equipment. No finance background is needed. Bringing anonymised inspection records, lane output figures or a centre layout helps them apply the walkthroughs and the improvement plan to their own centre.

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## **How does vehicle periodic technical inspection centre management differ from an inspection body accreditation course?**

It concentrates on running inspection lanes: test equipment, defect decisions, throughput, fraud control and centre economics. Accreditation courses work through the management system requirements of inspection bodies clause by clause; here those requirements appear only briefly as context for impartiality and quality control.

## **What does a roller brake tester measure during vehicle periodic technical inspection?**

A roller brake tester measures the braking force at each wheel, the imbalance between left and right wheels on an axle and, using vehicle mass, the efficiency of the service and parking brakes. Inspectors compare these results with the applicable limits before grading any brake defect.

## **What do participants take back from the vehicle periodic technical inspection centre management course?**

Participants take back an Inspection Centre Quality and Throughput Improvement Plan for a case centre, with a lane walkthrough checklist, a defect grading guide, a calibration and verification log, a KPI dashboard and a lane capacity model they can adapt to their own centre.