Lifting Equipment & DROPS Inspection Overview

Structured Thorough Examination, NDT Verification & Dropped Object Hazard Management

CATEGORY: TECHNICAL GUIDE | POSITIONING: INSPECTION PRECISION. ASSET INTEGRITY. OPERATIONAL CONFIDENCE.

1. Scope & Engineering Distinctions

Effective lifting and dropped-object control relies on clear delineation between routine visual pre-use checks, periodic thorough examinations, complementary nondestructive testing (such as Magnetic Particle or Liquid Penetrant testing on critical load-bearing pins, hooks, and padeyes), proof-load testing, and statutory certification where mandated.

2. Core Equipment & DROPS Inspection Domains

- Loose lifting accessories: shackles, wire rope slings, chain slings, eyebolts, master links, and turnbuckles.
- Fixed lifting appliances & structures: overhead cranes, pedestal crane booms, hoists, runway beams, and welded padeyes.
- DROPS surveys: elevated derricks, pipe racks, lighting fixtures, cable trays, secondary retention tethers, and fasteners.
- Defect quarantine: positive color-coding/tagging, nonconformance documentation, and repair/rejection traceability.