



INSPECTION FACILITIES FOR FABRICATION

Quality Control & Inspection System

Inspection Stages Material → Fit-up → Welding → NDT → Dimensional
Inspection → Surface Preparation → Painting/Coating → Final
Inspection→

**QC/Inspection Area, Dimensional Inspection Equipment, Welding Inspection Equipment,
NDT Facilities, Surface & Coating Inspection, Calibration Facility, Inspection
Documentation System.**

Dimensional Inspection

Measuring Tape
Vernier Caliper
Micrometer
Height Gauge
Spirit Level
Precision Level
Total Station / Laser Measurement
Templates & Measuring Fixtures

Welding Inspection

Visual Testing (VT)
Weld Gauge
Fillet Weld Gauge
Bridge Cam Gauge
Temperature Measurement
Weld Identification & Traceability
WPS/PQR compliance verification

NDT Facilities

VT – Visual Testing
PT – Liquid/Dye Penetrant Testing
MT – Magnetic Particle Testing
UT – Ultrasonic Testing
RT – Radiographic Testing
Qualified NDT personnel and reporting system

Material Inspection

Material Test Certificate verification
Material grade verification
Heat number identification
Thickness measurement
PMI, where applicable
Material traceability
Visual inspection for damage/corrosion

Surface & Coating Inspection

Surface cleanliness inspection
Surface profile measurement
Ambient temperature & humidity monitoring
Wet Film Thickness (WFT)
Dry Film Thickness (DFT)
Holiday testing, where applicable

Calibration Facility

Calibration of measuring instruments

Valid calibration certificates
Calibration status identification
Periodic calibration schedule
Traceability to recognized standards
Control of expired/damaged instruments

Inspection Documentation

Inspection & Test Plan (ITP)

Material Inspection Report
Fit-up Inspection Report
Welding Inspection Report
NDT Reports
Dimensional Inspection Report
Coating Inspection Report
Final Inspection Report

Quality Control Flow

Material Receiving
↓
Material Inspection
↓
Fit-up Inspection
↓
Welding Inspection
↓
NDT
↓
Dimensional Inspection
↓
Surface Preparation
↓
Coating Inspection
↓

Final Inspection & Release

Inspection Responsibilities
QC Inspector – Inspection & verification
Welding Inspector – Welding quality control
NDT Technician – NDT examination
Fabrication Team – Process compliance
QA/QC Engineer – Documentation & quality system
Client/Third Party Inspector – Witness/hold-point inspection, where applicable