

TOPSIDES VISUAL INSPECTION OF AGEING OFFSHORE FACILITIES

This course focuses on the Topsides Visual Inspection (TVI) principally of offshore structures but also encompasses topsides plant and associated equipment. It promotes a multi-disciplinary approach to topsides inspection and addresses the ageing issues.

DAY 1	DAY 2	DAY 3
1) Course Introduction • Scope – what is topsides? 2) Types of offshore facilities/components • Fixed steel, concrete or floating • Topsides structures • Pressure plant • Drains & risers • Rotating machinery • Deluge systems • Caissons & conductors • Valves • Ancillary equipment • PFP 3) RBI and inspection planning • Background to RBI • Methods & techniques • Planning considerations • Risk management • Anomaly reporting • Workbooks 4) Inspection & data gathering techniques • Visual • Means of access • Types of NDT • Monitoring & mitigation	5) Develop TVI procedure • Competencies • Team size • Equipment requirements • Calibration & standards • Preparation • Method of operation 6) Data management • Recording systems • Use of results • KPIs • Management reporting 7) Inspection equipment (practical session) • MPI • Digital wall thickness measurement • Ancillary tools • Datasheet completion 8) New technologies • Innovative methods of inspection	9) Ageing and deterioration • Degradation processes • Fabric maintenance • Holistic inspection • Tell-tale signs 10) Defect assessment & remedial action • Classifying and assessing defects • Criticality of repair • Repair methods and organisation 11) Case histories – good & bad practices • Learning from mistakes • Preventing defects occurring 12) Summary • HiKen video • Q&A • Close

Course Presenter: Ken Woolley, HiKen Ltd - over 35 years experience in the oil and gas industry including more than 1000 days offshore carrying out physical inspection-related activities on an international basis.