



## DIGITAL SOLUTIONS

# SYNERGI PLANT FOR RBI OFFSHORE USING DNVGL-RP-G101 AND API 580

Course code: SY-11  
Duration: 4 days

### Prerequisite:

This course does not require participants to be licensed users of the RBI Offshore module in Synergi Plant. A working knowledge of asset integrity management for new or ageing pressure and process equipment and piping is recommended. Alternatively, experience of design, fabrication, operation or maintenance of pressure systems and associated codes/standards is recommended.

## DESCRIPTION

This is an introductory course for the application Risk Based Inspection (RBI) to equipment in oil and gas production. The course will teach you the qualitative and quantitative RBI methodology within DNVGL-RP-G101 and API 580.

The following topics are covered:

- Damage mechanism assignment
- Probability of failure
- Consequence of failure and risk calculations
- Interpretation of assessment results
- Formulation of inspections plans

The focus of DNVGL-RP-G101 is upstream, offshore pressure systems where escalating failure consequence are an important safety consideration, but with the use of appropriate data it can be applied onshore as well.

## LEARNING OBJECTIVES

This DNVGL-RP-G101 course will help you apply RBI technology. Upon completion of the course you will understand inspection planning via probability and consequence of failure in accordance with DNVGL-RP-G101. This is the only published recommended practice for risk based inspection of offshore, upstream topside static mechanical equipment. The exercises are based on typical pressure vessels, heat exchangers and piping.

## TARGET GROUP

The course is aimed at the offshore and onshore upstream oil and gas production sectors. It is suitable for integrity, materials or corrosion engineers, non-destructive testing engineers and in-service inspectors, plant and maintenance engineers and planners; and associated engineering contractors and consultants.