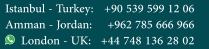




## Structural Steel Design for Oil & Gas Industry

## **Course Content:**

- Steel Properties and Grades
- Steel Properties
- Structural Shape Selection
- Structural Design Philosophy
- Limit State Design and Allowable Stress Design
- Commonly Used Codes and Standards
- Loading and Load Assessment
- Dead and Live Load
- Wind and Environmental Load
- Load Conditions and Combinations
- Beam and Frame Analysis
- Bending Moment and Shear Calculations
- Truss Analysis
- Structural Member Design
- Considerations for Member Selection
- Member Check and Unity Ratio
- Deflection Check
- Member Failure Modes and Solutions
- Connection Design
- Welded Connection





- Bolted Connections
- Design of Bearing Stiffeners