

Structure Dept provides professional engineering services of jacket structure designs from concept to installation engineering for offshore oil & gas field development in compliance with class and Industry standards, such as AISC, AWS, API, ASME, ANSI, ND, DNV, etc. COTEC delivers high standard products in an efficient manner.

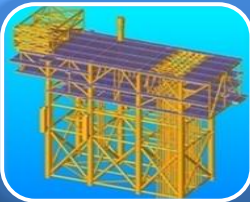
### SCOPE OF SERVICES

- ❖ Make specification
- ❖ Static analysis
- ❖ Dynamic analysis
- ❖ Fatigue analysis
- ❖ Seismic analysis
- ❖ Pushover analysis
- ❖ Ship impact analysis
- ❖ Load-out analysis
- ❖ Transportation structural analysis
- ❖ Lifting analysis
- ❖ Launching analysis
- ❖ Upending & lowering structure analysis
- ❖ Pile drivability analysis
- ❖ Conductor drivability analysis
- ❖ On-bottom & mudmat analysis
- ❖ Design of foundation pile
- ❖ Sleeve FEM analysis
- ❖ Padeye\ trunion design
- ❖ Hydrostatic ring calculation
- ❖ Bulkhead design
- ❖ Boat fender design
- ❖ Joint stiffener ring calculation
- ❖ Wave slam calculation
- ❖ Vortex induced vibration analysis
- ❖ Weight control summary
- ❖ Jacket structure drawing
- ❖ MTO

### SOFTWARE TOOLS

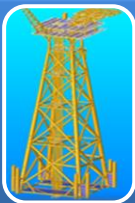
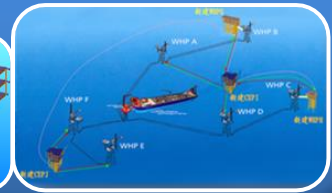
- ❖ SESAM
- ❖ Ansys
- ❖ SACS
- ❖ Mathcad
- ❖ AutoCad
- ❖ Inventor
- ❖ X-STEEL
- ❖ BOCAD
- ❖ PDMS

### REPRESENTATIVE PROJECTS



#### QHD 32-6 Jacket Basic & Detailed Design

- In-place analysis
- Installation Analysis
- Appurtance Structural Design



#### HY7-1 WHPB Platform Detailed Design

- 8 leg skirt piles drilling platform design
- In-place analysis
- Installation Analysis
- Appurtance Structural Design

