



Casing Design 301 Training Syllabus

Day 1 (8am–5pm)

- Introduction
- Casing functions
- Casing seat selection/kick tolerance
- Casing sizing
- Casing manufacture specification and casing performance strength
- Casing loads and design factors
- Class exercises

Day 2 (8am–5pm)

- Review of day one training
- Casing design software
- Casing yield ellipse and stress states
- Casing service load by changing environment (pressure, temperature)
- Casing buckling
- Casing material on corrosive environment
- Class exercises

Day 3 (8am–5pm)

- Review of day two training
- Casing wear and software demonstration
- Casing annulus pressure buildup (APB)
- Casing connection
- Casing design class project by group based on given well data, to perform:
 - Casing seat selection
 - Sizing casing strings
 - Casing weight and grade selection on surface, intermediate, and production casing/liner
 - Presentation

****1 hour lunch break****

****10 minutes break every hour****