



TTNK1001
TANK

Course Agenda
February 2, 2017

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Day 1

Basics of tank construction

Allowable materials of construction

Notch toughness or - toughness - brittle fracture

Allowable design and test stress for carbon steel tanks

Units

Materials

Arrangement of the code

Scope and limitations of the code

Stress in a tank cylindrical shell from the internal pressure

Sample calculation of an API 650 tank cylindrical shell thickness

Introduction to the TANK software

Hands-on exercises

Basic tank shell analysis

Roof analysis

Analysis of floor and annular plate

Roof-to-shell junctions analysis

Roof – Appendix F analysis

Wind loading analysis

Design of Anchor Bolts

Tanks subject to Seismic Loads

Design of a roof supported on a structure

Design of large diameter tanks

Design of tank subject to vacuum