Mindluster Platform

About the course Electric Submersible Pump Fundamentals

Electric Submersible Pump course, In this course explore the principles, design, and applications of electric submersible pumps in oil and gas production.

Engineering Category's Courses

Course Lesson(22)

Lesson 1 :
1 Course Introduction Life cycle of a hydrocarbon field and the field development process

Lesson 2 : **2 The field development process cont Production modes Offshore vs Onshore Oil vs gas**

Lesson 3 : **3 Intro to quantifying uncertainty in the value chain model during field planning**

Lesson 4 : **4 Probabilistic reserve estimation Monte Carlo method**

Lesson 5 :
5 Excel topics for Pet Eng and Example on Probabilistic reserve estimation with MonteCarlo

Lesson 6 : **6 Cash flow in a HC development project NPV calc sensitivity plots Decision trees**

Lesson 7 : **7 General layout of offshore production systems**

Lesson 8 : **8 Offshore structures for hydrocarbon production**

Lesson 9 : **9 Short on sea waves statistics computing production profiles with res sim proxy**

Lesson 10 : **10 Brief on reservoir simulation flow equilibrium**

Lesson 11 :
11 Flow equilibrium cont tubing performance relationship with multiphase flow Short on IPR

Lesson 12 : **12 Production potential production networks**

Lesson 13 : **13 Class exercise on production scheduling Production surface networks**

Lesson 14 : **14 Production networks Class exercise**

Lesson 15 : **15 Downhole Networks pressure drop calculations in conduits for multiphase flow**

Lesson 16 : **16 Cont class example Multiphase pressure drop calculations in tubing**

Lesson 17 : **17 Flow assurance issues subsea distribution unit temperature drop in conduits**

Lesson 18 :
18 Temperature and heat transfer calculations in pipe general on production processing

Lesson 19 : **19 Class exercise Processing train in Hysys ESP fundamentals**

Lesson 20 : **20 Electric submersible pump flow design verification**

Lesson 21 : **21 Exercise ESP design subsea boosting Exercise subsea compression**

Lesson 22 : **22 Production optimization intro**

Related courses

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