



NARGAN
ACADEMY



Pump and Control Valve Hydraulic Calculation

CONTACT US:



Nargan Academy



09336381443



info@academy.nargan.com



WHY CHOOSE THIS TRAINING COURSE?

Considering the wide application of pumps and control valves in Oil, Gas and Petrochemical plants, hydraulic calculation of these items is one of the main skills for process engineers who works at mentioned fields.

WHO IS THIS TRAINING COURSE FOR?

Participants should have the knowledge of "Fluid Mechanics" (Chemical / Mechanical Engineers)

WHAT ARE THE GOALS?

At the end of this course, participants could be able to do line sizing, control valve and pump hydraulic calculation and pump vendor documents checking

COURSE SYLLABUS (14 HOURS)

- Line sizing: Gas, Liquid and two phase streams
- Hydraulic calculation for control valve in Non-Pump service
- NPSHA: Definition and calculation
- Pump differential head calculation
- Shut off pressure calculation
- Shaft power calculation
- Sample Pump hydraulic Calculation
- Pump vendor document checking



Hamzeh Sadeghi

I'm a senior process engineer in Nargan Company with more than 11 years of experience in Oil, Gas, and Petrochemical fields involved in basic and detail design projects. I have very good experiences in hydraulic calculation, surge analysis (hydraulic transient study) and flare load calculation.

THE COURSE CONTENT

Day One

- o Line sizing: Gas, Liquid and two phase streams
- o Hydraulic calculation for control valve in Non-Pump service
- o Sample line sizing calculation

Day Two

- o NPSHA: Definition and calculation
- o Pump differential head calculation
- o Shut off pressure calculation
- o Shaft power calculation
- o Sample Pump hydraulic Calculation
- o Pump vendor document checking