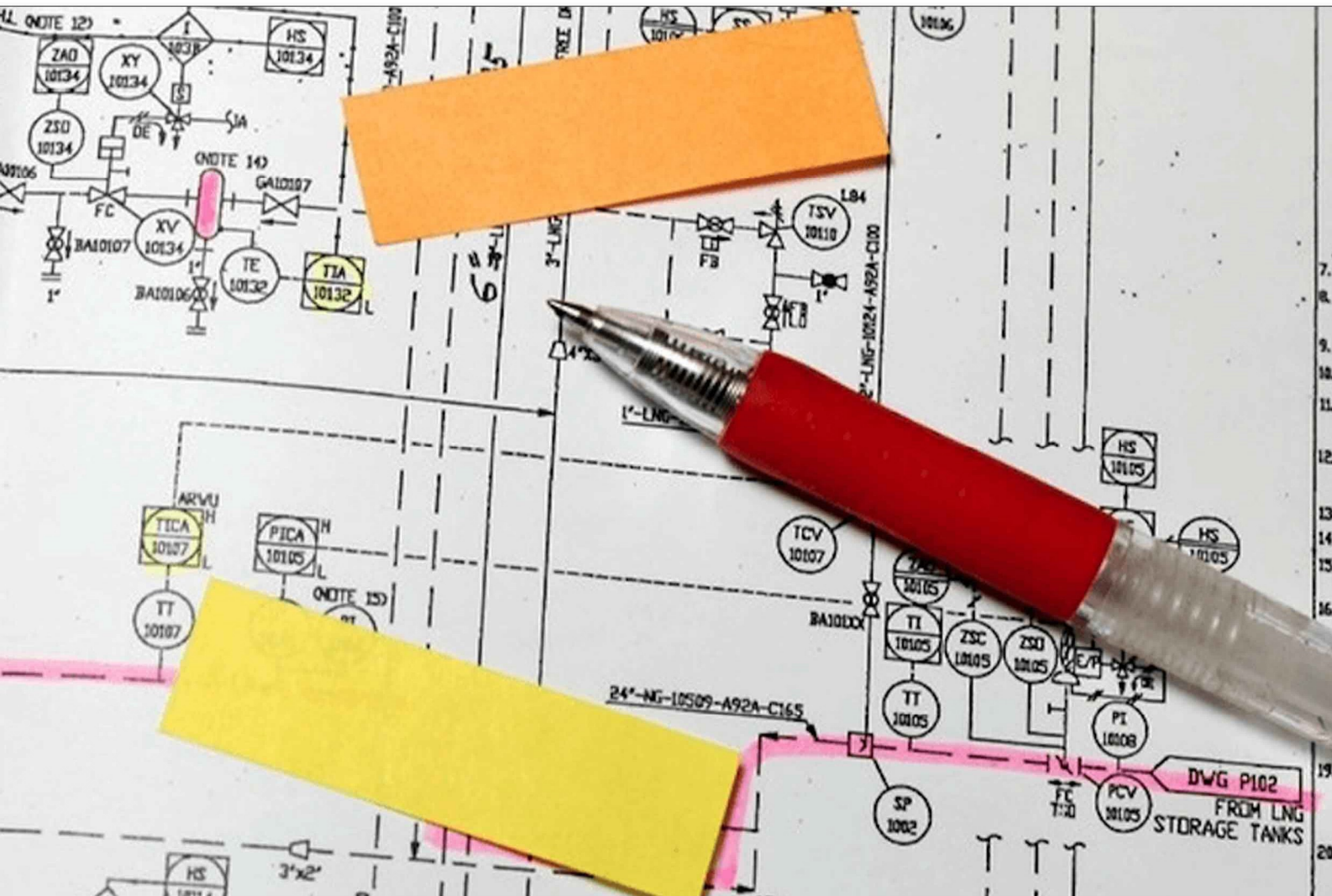


NARGAN
ACADEMY



PFD and P&ID Preparation Course

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WHY CHOOSE THIS TRAINING COURSE?

Since P&ID plays a pivotal role in projects in which a process is exist, a precise cognition of this document is vital. This course will provide enough information to read a P&ID correctly and gain deep

understanding of its elements. In this 24 hr course we are going to provide and instruct important topics which are the base and fundamentals for developing a P&ID.

COURSE SYLLABUS (24 HOURS)

- Introduction to Project Definitions
- Introduction to PFD
- Equipment Introduction
- Valves & Fitting Introduction
- Introduction to Basic Instrumentation
- Introduction to Piping
- Pressure Protection
- Isolation & Drainage Philosophy
- Introduction to HAZOP & SIL
- Introduction to P&ID Development
- Review of a Sample P&ID

WHO IS THIS TRAINING COURSE FOR?

The course will be started from basic topics and will be conducted to more intricate and complex discussions. Basic knowledge of process is needed.

WHAT ARE THE GOALS?

- How to read P&ID correctly with attention to all details
- Introducing Instrumentation and control systems from process point of view
- Introducing Piping considerations from process point of view
- Introduction to Process Safety and Pressure protection with HAZOP point of view
- Isolation philosophy, Positive isolation vs. valve isolation
- Relief and drainage systems
- Introduction to HAZOP and SIL meetings



Majid Ghasemzadeh

- M.Sc. in Chemical Engineering from SAHAND University of Technology, Tabriz
- 10-year experience Process Design Engineer with a demonstrated history of working in gas and petrochemical projects in Basic, FEED and detail design phases such as:
 - DEHLORAN Olefin Petrochemical Plant
 - KAROON HYCO plant
 - KIAN Olefin Petrochemical Plant
 - Marjan, Siraf, Badr-e-Shargh Petrochemical Complex
- Having an experience of instructing:
 - PFD-P&ID, Process Design of Equipment and Datasheet preparation, Simulation with HYSYS at JAHAD DANESHGAHI
 - PFD-P&ID and HAZOP, Process Design of Equipment and Data sheet preparation at NOVIN PARSIAN
 - Flare network sizing with Flarenet at NAMVARAN
 - P&ID Pasargad Oil company

THE COURSE CONTENT

Day One

- Introduction to Project Definitions
- Equipment Introduction
- Valves & Fitting Introduction
- Introduction to Basic Instrumentation

Day Two

- Introduction to piping
- Review IPS-E-PR-230
- Review a real P&ID

Day Three

- Review Safety aspects on P&ID
- Pressure Protection
- Isolation & Drainage Philosophy
- Introduction to HAZOP & SIL