

# GASKET INSTALLATION Training

## Gasket Training Rig Program Overview

Our FADU (Flange Assembly Demonstration Unit) Training Rig is a great “hands-on” tool that helps to represent a true gasket installation experience. Users can use CNA, PTFE or even semi-metallic gaskets for demonstration.

And the unit has a 4" 300# RF flange, with 8 – ¾" bolts that are individually strain gauged to measure the applicable bolt stress in real time.

### Generally the training is divided into 2 parts:

1. Classroom learning (Overview of specific learning criteria for the application level of training)
2. Hands on training with the gasket installation rig (gasket installation and bolting fundamentals)



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### Program Levels

#### Level 1: Beginner (<1 Day)

- Function of a gasket
- Mechanics of a BJFA (Bolted Joint Flange Assembly)
- The function of a stud/bolt, washer and nut
- What to look for when evaluating gasket installations
- Basic installation and joint disassembly using the modified legacy method (star pattern)
- Demonstration of the Gasket Training Rig with 1-2 volunteers to use the train

#### Level 2: Intermediate (1-2 Days)

- More in depth understanding of forces acting upon the BJFA
- Lubrication and why it is so important
- PCC-1 Overview
- The importance of retightening/torqueing
- Gasket failure analysis and how to determine root cause
- Alternative torque control devices (Torque multipliers, hydraulic and stud tensioning)
  - The pro's and con's to each
- Alternative methods of installation such as quadrant, circular and simultaneous multi bolt
  - Why and where you would used them

#### Level 3: Advanced (1-2 Days)

- Criteria specific training requested by attendees
- Application specific installations
- Problematic gasket installations and how to improve gasket reliability during start-up