



Since 2002

# SANJARY EDUCATIONAL ACADEMY®

Society Registered, No. 347 / 08, Government of Telangana

Registered with Ministry of Commerce & Industry, Directorate General of Foreign Trade, Govt. of India.

Registered with Ministry of Micro, Small & Medium Enterprises, Government of India,

Member of Indo-American Chamber of Commerce (IACC)

Member of Federation of Telangana and Andhra Pradesh Chambers of Commerce and Industries (FTAPCCI)

## ISO 9001 : 2015 Certified

**Head Officer :** S.NO. 24 & 25 , 3<sup>rd</sup> Floor , SANALI MALL , above Mcdonalds , Opp. Chermas Show room , Abid , Hyderabad , Telangana , India . phone :+91- 40- 65268809 / 9985715560

**Register Office :** 20 – 3 – 144 / 9 , Shibli Gunj , Hyderabad , Telangana , India

## TRAINING AND CERTIFICATION TO ENGINEERS / INDIVIDUALS

Global Leader in Education - Training and Certification to Engineers & Individuals in Piping Design - Piping Engineering, Piping Design Engineer , Pressure Vessel Design Engineer , QMS , QA,QC , - QA / QC Manager, QA / QC Engineers - Civil, Mechanical , E & I, Piping, HSE - Safety Manager, Safety Engineer, Safety Officer, Welding Engineer, Welding Inspector etc.

### Certification Course

**Course Title** : *P G Diploma in Pressure Vessel Design and Engineering Per ASME Section VIII Div. I*

**Eligibility Criteria** : Mechanical Engineer , Chemical Engineers , Petroleum Engineer

**Duration of Course** : 20 Days

**Daily Classes** : Two Hours Per Day

**Maximum No. of Students in a batch** : 15

**Venue** : **SANJARY EDUCATIONAL ACADEMY ,**  
**HEAD OFFICE: 5-9-233 / 234 , S. No. 24 & 25 , 3<sup>rd</sup> Floor,**  
**SANALI MALL Opposite Chermas Showroom , Abids ,**  
**Hyderabad - 500001, Andhra Pradesh , India**

Please register prior to the above course commencement date.

**Note :**

1. Course Fees includes the course materials ( Hard Copy only ) Training ,examination and certification .
2. Certificate , Mark Sheet and Qualification Card will be awarded to you after successfully completion of course & examination.

**Sanjary Educational Academy** legally established in the year 2002. **Sanjary Educational Academy** is a Society Registered No. 347/08 by Government of Telangana , India . Undertaking high quality of training , certification to Engineers and Individuals , solution and time to time achieve higher level of educational values in various sectors including oil & gas , petrochemicals , refineries , power energies , construction projects etc in the field of Piping Design , Piping Engineering , QA QC, QMS , Industrial Safety ( HSE ) , Welding Technology etc.

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**Sanjary Educational Academy** - registered “ Trade Marks Registry “ , Government. of India

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Sanjary Educational Academy an ISO 9001:2015 Certified for Design & Development of Courses in Piping Design , Piping Engineering , Pressure Vessel design , QA, QC, QMS, Industrial Safety (HSE), Information Technology (IT), Integrated management System (IMS), Welding Inspector , Piping Inspector and Training, Examination & Certification,

**M /S SANJARY EDUCATIONAL ACADEMY ( SEA ) IS ONLY ONE IN WORLD TO CERTIFY :**

**Certified QA / QC Manager ,**

**Certified QA / QC Engineer – Civil , Mechanical , E & I , Piping**

**Certified QA / QC Inspector – Civil , Mechanical , E & I , Piping**

**Certified Piping Design Engineer ,**  
**Certified Pressure Vessel Design Engineer ,**  
**Certified Welding Engineer**  
**Certified Safety Manager**  
**Certified Safety Engineer ,**  
**Certified Safety Officer**  
**Certified Document Controller**

### **NATIONAL & INTERNATIONAL AWARDS WINERS**

#### **SANJARY EDUCATIONAL ACADEMY Awarded The Most Prestige's**

- ▶ **“Indian Achievers Award for Quality Excellence”**  
 , August 5 , 2010, New Delhi.
- ▶ **“Indira Gandhi Excellence Award for Education Excellence ”**  
 December 21 , 2014 , New Delhi
- ▶ **“International Achievers Award for Education Excellence “**  
 August 27 , 2010, Bangkok.
- ▶ **"Best Performance Award for Excellence in Social & Education "**,  
 August 10, 2015, New Delhi, India.

#### **Mr. Mohammed Saleem – SEA President Awarded The India's most Prestigious**

- ▶ **“Rashtriya Gaurav Award”**  
 October 1, 2016 , New Delhi , India
- ▶ **“Bharat Jyoti Award”**  
 January. 7, 2006 , Hyderabad , India
- ▶ **“Bharat Shiksha Ratan, Award”**,  
 August 10, 2015, New Delhi, India

SEA certification is accepted and recognized by major National & International companies in the world including India , Saudi Arabia , UAE , Kuwait , Qatar , Bahrain , Oman , Jordan , Iraq , Iran , Yemen , Nigeria , Sudan , Libya , Turkey Portugal, Cameroon, Vietnam , Congo & other countries. Our SEA certified Engineers are already working in the above said countries.

SEA has trained & certified more than 5000 Engineers & Individuals in last five ( 5 ) years in different engineering disciplines and various sectors which include Oil and Gas , Petrochemicals , Refineries , Power Plant , Aeronautics & Construction projects etc.

M/s Sanjary Educational Academy has organized various National & International Conferences and Seminars in India & Abroad on Piping Design and Engineering , QA / QC , Safety ( HSE ) , Welding Technology etc in the field of Oil and Gas , petrochemicals and power Plant Industries etc.

## **Overview of course for P G Diploma in Pressure Vessel Design and Engineering Per ASME Section VIII Div. I**

This comprehensive course which provides a systematic development of skills and knowledge of Pressure Vessel Design Engineer inline with International standards.

This certification course is design and developed by Sanjary Educational Academy. A comprehensive course covering in depth the design of pressure vessel as per ASME Section VIII Division I including Process Equipments. (Vessels, Reactors, Heat Exchangers, Distillation Columns, ) Overview of PFD , P&ID and Process Data Sheets, Inputs required and use of the inputs ,Relevant Codes and Standards used in Industry including ASME Section VIII , Materials Specifications – ASTM / ASME , Pressure Vessel Service Classification, Mechanical Properties of Steels , Overview of G.A. Drawings and Fabrication drawings of Equipments , Overview of Piping / Nozzle Orientation drawings of Pressure Vessels

This certification course is more concentrated on manual design calculations of Stresses in Pressure Vessels , Pressure Vessels Shell and Head Thickness , Dead Weight , Hydrostatic Test Weight of Pressure vessels , Wind and Earthquake Loadings , Calculating Nozzle Necks and Nozzle Reinforcement , Saddle Support & Lifting Lug of Pressure vessels

A comprehensive course covering in depth the requirements of in various sectors /

industries including

- Oil & Gas
- Petrochemical
- Refinery
- Power Plant
- Chemical Plant

## **Course Syllabus**

### **PART - 1**

**Module 1 Introduction**

**Module 2 Process Equipments. (Vessels, Reactors, Heat Exchangers, Distillation Columns, )**

**Module 3 Overview of PFD , P&ID and Process Data Sheets.**

**Module 4 Inputs required and use of the inputs.**

**Module 5 International Codes and Standards used in Industry including ASME Section VIII**

**Module 6 Materials Specifications – ASTM / ASME**

**Module 7 Pressure Vessel Service Classification**

**Module 8 Mechanical Properties of Steels**

**Module 9 Design of Pressure Vessel as per ASME Section VIII Division I**

**Module 10 Overview of G.A. Drawings and Fabrication drawings of Equipments.**

**Module 11 Overview of Piping / Nozzle Orientation drawings of Pressure Vessels**

**Module 12 Stresses in Pressure Vessels**

**Module 13 Calculating Pressure Vessels Shell and Head Thickness**

**Module 14 Calculating Dead Weight , Hydrostatic Test Weight of Pressure vessels**

**Module 15 Calculating Wind and Earthquake Loadings**

**Module 16 Calculating Nozzle Necks and Nozzle Reinforcement**

**Module 17 Fabrication , Inspection and Testing of Pressure vessels**

**Module 18 Introduction to Pressure Vessel Design Software**

**Note : Certificate , Marks Sheet will be awarded to the students / candidate after successful completion of course & examination .**

**For any further details pls do not hesitate to contact us at**

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**Thanks and regards**