



# INDUSCAN<sup>®</sup>

## PETROLEUM INSTITUTE



An ISO 9001-2015 Certified Institution

Established in 2002

ENGINEERING CONSULTANCY ♦ SKILLED PROFESSIONAL RESOURCES ♦ ENGINEERING SKILL DEVELOPMENT PROGRAMMES

## WELDING SUPERVISOR (Structural/ Pressure Vessel/ Piping)





## ABOUT INDUSCAN

Induscan Petroleum Institute is an ISO 9001: 2008 certified, Trade Mark Registered academy established in February 2002. This institute pioneers in Engineering consultancy, Engineering skill development programs, Human Resources, and Skilled Professional Management for all kinds of mechanical construction industries especially in Oil and Gas Sector, Thermal Power sector, Petro-Chemical sector, and other related Industries. Induscan's skill development programs are available from matriculation level (skilled Technician) throughout Post-graduation level (Skilled Design Engineer). The course elevates employability of youth and ensures employment all around the world. Induscan's skill development programs enhance sufficient clarity in the area of employability and nature of the responsibilities of skilled professionals in the industry. Thousands of skilled professionals have benefited this program since 2002.



### VISION

The Global Engineering community shall recognize their skill range in accordance with international standards and specifications. Industry shall recognize the potential of skilled engineering professionals and source of dynamic candidates from Induscan Petroleum Institute.



### MISSION

Construct a strong bridge of engineering skills between engineering professionals and the International Mechanical Construction Industry so that need from either side is successfully fulfilled.



### RECORDS

Since February 2002, Induscan Petroleum Institute has proven records of successful services in accordance with the vision and the mission of its nature. The system of skill development and industrial customization is introduced as a miniature of the core mechanical engineering industry (Mechanical Construction, Mechanical Production/Manufacturing, and Mechanical Maintenance).





# WELDING SUPERVISOR

## (Structural/ Pressure Vessel/ Piping)

### SCOPE

This course makes opportunity for non engineering graduates to convert their employment sector to perfect technical field in Oil and Gas sector (factories and sites). There are many graduates interested to work in technical sector but due to the education background, their real interest is blocked. Induscan Petroleum institute introduces bridge courses to add technical back up using industrial exposure and hands on technical job experiences to non technical graduates. Fundamentals of engineering drawing, engineering metallurgy and updated manufacturing processes are included in the training program in easily digestible methodology.

### THE COURSE

After successful completion of the course, trainees are capable of handling various responsibilities of Oil and Gas construction sector (factories and sites) just like a Technical Supervisor with minimum one year relevant experience. The course syllabus is designed in such a way that supervisors can take responsibilities in any position as listed below with best pay scale and plenty of opportunities.

WELDING SUPERVISOR  
SITE SUPERVISOR  
WELDING INSPECTOR  
NDT INSPECTOR

### SYLLABUS IN BREIF

There are five modules as listed below to cover the total course content.

**Module 1** Construction Diagrams and Drawings

**Module 2** Construction Materials

**Module 3** Practical Welding and Welding Parameters

**Module 4** Welding Procedures, Welder qualification and Welding standards

**Module 5** Non destructive tests, Weld Inspection, Documentation

(Detailed syllabus is available during course counseling)

### DURATION OF TRAINING

Duration of the course of Welding supervisor is 360 hours. Duration inclusive of examination and certification is approximately 4 months.

### TRAINING FACILITIES

Induscan Petroleum Institute is well equipped with advanced class room, laboratory and work shop facilities to explain the course content with factory and site experience.

#### Piping Lab

Piping Lab is constructed with the below specification.

Total area is 110 Square Meter

750 inch meter erected piping of heavy wall thickness carbon steel pipe ranging from 1/2 NS to 12 NS using butt and fillet welding. Piping lab is facilitated to explain P&ID, GAD, Isometric, Structural supports, co ordinates, elevation etc. 3 types of Static equipment, (Heat exchanger, Horizontal vessels and Column) are installed in piping lab to explain equipment drawing, Equipment construction, Nozzle orientation etc.

#### Materials Lab

Materials lab is arranged at 75 Square Meters in area. Sufficient quantity of almost all kind of mechanical construction materials such as seamless pipes, ERW pipes, flanges, Gasket, fasteners, elbows, tees, reducers, O lets reducers, end cap, valves etc ranging from 1/2NS to 12NS in size.

#### Welding Lab and Workshop

Welding lab/ Workshop is arranged with the following specifications

Lab area is 100 Square Meter

Facility to explain different types of welding process, Welding Procedure Qualification (WPS/PQR), Welders Qualification Test, Weld visual Examination, Welding Positions, Weld defects, Welding Electrodes etc.

#### NDT lab

NDT Lab is provided with the following specifications

Lab area is 100 Square Meter

Facility for Practical Training in the following 4 methods





## PENETRANT TEST

Solvent Removable Visible Method

Solvent removable Fluorescent Method

## MAGNETIC PARTICLE TEST

Electro Magnetic Yoke Method

Permanent yoke Method

Prod Method

## RADIOGRAPHY TEST

Weld joints to explain all types of Radiographic techniques and Weld defects.

Film samples of various radiographic Techniques

## ULTRASONIC TEST

Digital type UT Machines

Calibration Blocks

Various types of Transducers

Various types of Weld Samples and Test specimen

## ELIGIBILITY CRITERIA FOR ADMISSION

Course completed certificate of Non Engineering Graduation ( for example, B Sc, B Com, B A, etc) is the basic qualification preferably required for admission. Final year drop out of Engineering Diploma/ Engineering Graduation in any discipline is also eligible for admission.



## COURSE REGISTRATION

Properly filled application form along with a copy of qualification certificate shall be submitted either in person or through website [www.induscan.net](http://www.induscan.net). Up on receipt of application and registration fee, registration detail will be forwarded to the applicants. Applicant shall submit original of their qualification /course completion certificate at the time of admission.



## EXAMINATION

### MODULAR EXAMINATIONS

Total syllabus is divided into five modules. Modular examination is conducted in three sections (theory, practical and viva voice) up on completion of each. (Percentage of mark to be scored in each module is specified in course conditions of the batch)

### ASNT EXAMINATIONS

Additional examination for the fourth module will be conducted in four methods of Nondestructive Testing (PT, MT, RT and UT) by competent authority.

### FINAL EXAMINATIONS

Examination for Module five will be considered as final examination.

### CERTIFICATION

Course certificate of WELDING SUPERVISOR (Structural/Pressure vessel/Piping) is issued to successful candidates up on completion of final examination. (ASNT Level II certificates are also a part of final certifications).

### COURSE FEE

(Course fee list will be available during course counselling)

### PLACEMENT

Placement is not guaranteed for the course of Welding Supervisor (Structural/Pressure vessel/Piping). Course fee indicated in the Fee list is only for training and certification. Certified Welding Supervisor (Structural/Pressure vessel/Piping) is permitted to register through Induscan's campus selection portal for employment. Almost all of our previous batch students are well placed in India as well as abroad through this placement portal.





SKILL DEVELOPMENT COURSES	BASIC EDUCATIONAL QUALIFICATION
X RAY QUALITY WELDER	MATRICULATION (SSC) OR EQUIVALENT
STEEL FABRICATOR	PLUS TWO OR EQUIVALENT
NDT TECHNICIAN	PLUS TWO OR EQUIVALENT
WELDING SUPERVISOR	ENG. DIPLOMA OR NON ENG.GRADUATION
FABRICATION SUPERVISOR	ENG. DIPLOMA OR NON ENG.GRADUATION
SKILLED MECHANICAL INSPECTOR - QAQC	ENG. DIPLOMA (MECHANICAL)
SKILLED MECHANICAL ENGINEER - QAQC	BE/B.TECH (MECHANICAL)
DESIGN ENGINEER (PRESSURE VESSELS & PROCESS PIPING)	M.TECH (MECHANICAL)



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