SMARTPLANT INSTRUMENTATION

Process Plant Design Program

Program Duration: 60 Hrs.

Communication Language: English

Highlights

STRUCTURED

Thoughtfully designed curriculum helps you to emerge confident & comfortable.

INDUSTRY-RELEVANT

Industry-tested curriculum to make you job ready

HANDS-ON

Projects and assignments to actually implement concepts

EXPERIENCE

A structured, flexible & guided learning program!!!

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National Career Service
सही अवसर, सही समय
Right Opportunities, Right Time

Registered institute under NCS [Ministry of Labour & Employment

NCS ID: S15A79-2255176104765

Course Category: Process & General Industry

Certification: Intermediate

Course: SmartPlant Instrumentation

SYNOPSIS

Key Learning Module

- System Administration
- SPI - User Level
- Plant Reports
- AutoCAD - SLM

Program Highlights

Duration: 60 Hrs.

Software: SPI - INTOOLS

Delivery Mode: Live & Interactive

BENEFITS

Personalized

Topics, peers & pace of learning are optimized for your needs

Flexible Session Time

Decide your ideal class timing together with your classmates

Needs Time for Unplanned Activities

Pause your course and restart a month later with the next batch!

TEXVYN TECHNOLOGIES

Texvyn's Institute of Continuous Learning [ICL] is the newest venture of Texvyn Technologies which aims to be a global talent-solutions company offering integrated practical knowledge to meet the growing demand for quality talent. Our focus is to create development solutions that offer a career launch pad for students, working professionals and a ready pool of employable talent for enterprises in the Oil & Gas, Power, Water Treatment, Chemical , Petro-chemical and Manufacturing sectors.

ICL introduces professional engineering courses which has been developed to equip graduates and practicing engineers with an in-depth understanding of the fundamentals of manufacturing & process plant systems and an excellent competency in the use of state-of-the-art approaches to deal with the major operational and design issues of the modern industries. The course provides up-to-date technical knowledge and skills required for achieving the best management, design, control and operation of efficient engineering plant systems. The course is suitable for diploma & engineering students who wish to embark on successful careers as engineering professionals. Learn with us and wherever you are in the world, we'll help you achieve the qualifications that will set you apart.

PROGRAM OVERVIEW

Smart Plant Instrumentation® powered by INTOOLS® is extensively used in various industries to help engineers to automate complex processes, and minimize human mistakes. Intergraph Smart® Instrumentation offers a single engineering & design environment to create and manage instrumentation data across the lifecycle, and consistently manage change across required deliverables.

Smart Instrumentation, the industry-leading instrumentation solution, facilitates increased productivity and lowered risks on project execution for the EPC and a single source of all instrumentation data access for plant owners to help lower cost of operations and increase process uptime.

Program Agenda

M01	**System and Project Administration Overview**
01	Introduction to SPI - INTOOLS
02	User Interface & Modules
03	Creating a New Project
04	Basic Introduction to SPI Database

M02	**Engineering Activities**
01	Piping & Instrumentation Diagram
02	What is "Instrument Type" in Smart Plant Instrumentation?
03	What is Device Panel in SPI and how to set it up successfully?
04	DP Transmitter Flow Set up
05	Device Panel Positioners
06	**Activity** : Create and Modify the Instrument Types of the Selected List
07	Create Instrument Loops
08	Tag and Loop using Instrument Index Module in SPI
09	Duplicating a Loop and its Tags in SPI

M03	**Wiring Operations in SPI**
01	Wiring Introduction
02	Junction Box Definition
03	Marshalling Cabinet Definition
04	DCS Cabinet Definition FREE PREVIEW
05	Junction Box in Domain Explorer
06	Reference Cable Definition
07	Reference Cable in Domain Explorer

08	Making Connections
09	Field Side Connections to the Marshalling Cabinet
10	DCS Side Connections to the Marshalling Cabinet
11	Performing Cross Wiring
12	Adding New Instrument
13	Connecting New Instrument

M04   Generating Engineering Deliverables

01	**Instrument Index:** Creating, Modifying & Deleting Loops, Tags, Instrument Types etc.
02	**Browser**: Creating, Modifying & Deleting Browser Views, Filters & Saving to Excel
03	**Calculations**: Performing sizing calculations
04	**Data Sheets**: Process Data Reports, Interface With Other SPI Modules
05	**Specification Sheets:** Creating & Modifying Specification Sheets
06	**Wiring 1**: Creating new default and production wiring objects (panels, strips, terminals, apparatus, cables)
07	**Wiring 2:** Connecting Objects, Signals, General Signal
08	**Enhanced Smart Loop:** Symbols, Symbol Libraries, Layouts, Templates & Title Blocks
09	Cable Schedules, Reporting, Cross Wiring & IO Allocations.

M05   Hook-up & Loop Drawings

01	Apply Generation Methods & Generating a Loop
02	Associating Hook-up and Instruments
03	Viewing Symbol Contents
04	Associating Items with Hookups

M06   SPI Essential Modules

| 01 | Instrument Index |
| 02 | Working with Spec Sheets |

ACCELERATE YOUR CAREER GROWTH & UPSKILL YOURSELF

Tried & tested curriculum, trusted by thousands of students

PROGRAM FORMAT

This program will be delivered in an interactive, practical, E-learning video format along with real life examples. Theory will be supported and illustrated through a combination of real-world examples. The USP of our courses is that these are developed by experts working on real life projects and hence the course content reflects the practical aspects and challenges faced by the professionals to kick start their career.

AUDIENCE PROFILE

This course is designed for fresher & experienced engineers from instrumentation background and willing to work as instrumentation design engineer.

Qualification Eligibility for SmartPlant Instrumentation

- B.TECH / BE in Instrumentation Engineering [Students pursuing Final Year BE are also eligible]
- Diploma in Instrumentation Engineering
- Master in Instrumentation Engineering

PROGRAM OUTCOME

- Create Loops and Tags based on the Piping & Instrumentation Diagrams (P&ID).
- Create Instrument Index.
- Working with SPI Preferences in 19 Sections.
- Creating Instrument Data Sheets, and Instrument Specifications.
- Generating Different Reports and Instrument summaries.
- Performing Instrumentation Sizing and Calculations including Valves and Flow Element sensors.
- Creating Loop Drawings.
- Creating Hookup Drawings.

Registration Process & Career Services

ENROLLMENT

Program Registration

Candidate can register for the program by using a link below -
https://forms.office.com/r/mnRRCw1Fzw

Payment Terms

- 100% payment to be made before commencement of course.
- Payment link will be shared post registration vide email & Whatsapp.

Document

- Passport Size Photo [1 No.]
- Photo ID Proof.
- Qualification Proof.
- Resume Copy

Refund / Admission Cancellation

- Online courses are completely non-refundable & non-transferrable under any circumstances.
- For further details get in touch with our support team on +91-8779674727

PROGRAM CERTIFICATION

Students will be awarded with certification on completion of course along with the given assignments. It has affiliation & recognition from National Career Services [Ministry of Labour & Employment].

CAREER SERVICES

Assured Interviews

Assured Interviews upon submission of projects and assignments. Get an opportunity to interviewed by leading engineering companies.

Profile Building

Get assistance in creating a world-class resume from our career services team and learn how to grab the attention of the hiring manager at the profile shortlisting stage.

Job Lens

Job Lens by Texvyn is the digital job board platform to publish the latest job openings & growth opportunities for engineers in India & Abroad.
Link: https://t.me/joblens

Texvyn - EVOLVE

A Community for Core Engineering Professionals to share ideas and seek help. Also get the latest information on Texvyn Events!
Link: https://t.me/texvynevolve

Texvyn Advantage

We offer an unique range of services which allows every student to get an effective learning program with An advantage of technology centric platform to enhance their career & employability skills. Some of our key highlights are as mentioned below -

01 Affiliation

An Autonomous Institute registered with National Career Service [Govt. of India - Ministry of Labour & Employment].

02 Technology

In-depth learning on all latest industry leading tools in order to get an edge over throat cutting competition.

03 Support Services

Our dedicated team can address queries via calls, emails, and chats to provide the best-in-class support to our students.

04 Discussion Forum

This is where the industry expert engages with ICL students & initiate the discussion on various topics trending across industries in India & abroad.

TEXVYN SUPPORT CENTER

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