



ELECTRICAL SYSTEM ANALYSIS - ETAP

Process Plant Design Program

Program Duration: 30 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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Course Category: Process & General Industry

Certification: Intermediate

Course: Electrical System Design & Analysis on ETAP

SYNOPSIS

Key Learning Module

- Single Line Diagram
- Load Flow Analysis
- Short Circuit Analysis
- Arc Flash Analysis

Program Highlights

Duration: 30 Hrs.

Software: ETAP

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

ETAP is the most powerful software in the area of Electrical Power systems. Using this software you can design and analyse your power system from the source of power all the way to the loads connected to it. ETAP offers a suite of fully integrated electrical engineering software solutions including arc flash, load flow, short circuit, transient stability, relay coordination, cable ampacity, optimal power flow, and more.

The course is designed for students, engineers, researchers and anyone who wants to learn ETAP professionally. It is suitable for beginners as well as intermediate users who want to improve their skills. The course includes step-by-step examples and hands-on exercises to help you practice and apply what you learn.

Program Agenda

M01	An Introduction
01	Introduction to ETAP Software
02	ETAP License Selection Procedure
03	ETAP Software Installation
04	Creating a New Project
05	ETAP Toolbar's
06	Shortcut Keys
M02	Creating Projects in ETAP Using Advanced Tools
01	Creating a Project in ETAP
02	About Project Files
03	Project Setting
04	User Manager (Access Levels)
05	Create a One Line Diagram
06	AC System Modelling Capabilities & New Features
07	Edit Tool for One-Line Elements
08	Dumpster
09	Circuit Continuity
10	Tracing Functionality
11	Inserting Objects in to OLV (Ex: Tabular Column, MS Word & Excel File)
12	Display Options
13	Theme Editor
14	Hyper Link (Ex: Web Address, Photos, Documents Etc.,)
15	Project Tracker

16	File Transfer Protocol (FTP)
17	Project Conversion (Loading an Existing Project)
18	Libraries
19	Data Manager (Revisions)
20	Data Presentations
21	Configuration Manager
22	Schedule Report Manager
23	Auto Build Toolbar
24	Data Exchange
25	Creating a Template & Importing it into One Line Diagram
26	System Manager (Multi-Dimensional Data Base)
27	Rules & Procedures
28	Message Log
29	Power Calculator
30	Batch Print (Star-TCC)
31	Optional References
32	Protective Device Selection (Based on SLD & Product Data Sheet)
33	Mode Toolbar (Over View – Power System Analysis)
M03	Load Flow Analysis in ETAP
01	Run a Load Flow Analysis on a Simple One Line Diagram
02	Data Requirements
03	Load Flow Edit Study Case
04	Calculation Methods
05	Loading/Generation Categories

06	Parameter Settings / Adjustments
07	Load Analysis Reports
M04	Short Circuit Analysis in ETAP
01	Run a Short Circuit Analysis on a Simple One Line Diagram
02	Data Requirements
03	Short Circuit Edit Study Case
04	Types of Short Circuit in IEC & Factors
05	IEC 60909 Calculation Method
06	Parameter Settings / Adjustments
07	Short Circuit Analysis Reports
M05	Protection & Coordination in ETAP
01	Data Requirements
02	Edit Study Case (Protection & Coordination)
03	Protection Equipment Library
04	Protection & Selectivity Concepts
05	Time-Current Characteristics
06	Parameter Settings / Adjustments
07	Report Manager
08	Create Device Settings Report
M06	Arc Flash Analysis in ETAP
01	Introduction to Arc Flash IEEE 1584-2018/2002
02	Data Requirements (Bus – Rating & Arc flash)
03	Edit Study Case (Arc Flash)
04	Methods, Parameters, SC Standard, Alert

05	Analyzing Simulation Results
06	Hazard / Warning Label Creation
07	Time-Current Characteristics
08	Display Options
09	Report Manager
10	AF Calculator
M07	Project Work
01	Case Study - 01
02	Case Study - 02



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 electrical background and willing to work as Electrical Design Engineer.

Qualification Eligibility for Electrical Design Engineering

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

PROGRAM OUTCOME

- Introduction to oil and Energy Industry
- Use ETAP software confidently and efficiently.
- Model and simulate any power system using ETAP.
- Perform various types of analysis using ETAP.
- Interpret and present your ETAP results.
- Understand the fundamentals of power system analysis and electrical engineering.
- Build power systems and simulate the power, current and voltage flow.
- Run and Analyse AC power circuits.
- Run Short Circuit analysis and Arc-Flash.
- Single Line diagram creation and analysis.
- Run load flow analysis on one line diagram.

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 in industry & abroad.

TEXVYN SUPPORT CENTER

201-Raunak Arcade, Opposite THC Hospital, Gokhale Road, Naupada, Thane 400602

