



JS TrafoEnergy
Engineering Consultant

Power Transformer - Training

Course designed by
Mr. C Jayasenan





JS TrafoEnergy
Engineering Consultant



**Founder of
JS TrafoEnergy**

With over 37 years of experience in transformer engineering, Mr. C. Jayasenan has played pivotal roles at leading organizations including Andrew Yule, Kirloskar Electric, Bharat Bijlee, Virginia Transformer (USA), and SIEMENS Energy India. He holds a B.E. (Electrical – Honours) from NIT Durgapur and an M.S. in Manufacturing Management from BITS Pilani.

Until his retirement in June '25, Mr. Jayasenan led the Engineering function at SIEMENS Energy's Transformer Factory in India, where he was recognized as a local key expert in EHV transformers. His specialization includes power transformers ($\leq 1200\text{kV}$) and shunt reactors ($\leq 800\text{kV}$), tailored for diverse global markets.

A passionate contributor to the Industry, he has authored numerous technical papers and presented at prestigious forums hosted by CBIP, CPRI, and IEEMA. He is also a life member of CBIP India and was nominated as Technical Committee Chairman for IEEMA's e-TrafoTech 2020. He had conducted numerous technical trainings to various stakeholders of Transformers.

In Sept'25, he founded **JS TrafoEnergy**, to offer high-impact consultancy services to OEMs, utilities, and academic institutions - driven by a commitment to excellence, innovation, and industry collaboration.

WHAT MAKES THIS COURSE UNIQUE?



Knowledge & information exceeding electrical engineering books. Our author will provide instructions for becoming a true expert, regardless of your previous level of experience; all you need to have is the will to learn.

TAILORED FOR KEY AUDIENCE

- **General Participants** - Explore the fundamentals of transformers, key accessories, and essential empirical equations
- **Equipment Purchasers** - Learn how to select, evaluate, and procure the right products in compliance with national and international standards.
- **Equipment Users & Owners** - Safe installation, reliable operation, and maintenance strategies. Dive into lifecycle management, repair protocols, and disposal guidelines



JS TrafoEnergy
Engineering Consultant

JS TrafoEnergy offers specialized technical training in Power Transformers, crafted for engineers in the energy sector. Our goal is to enhance your technical skills, deepen product knowledge, and sharpen diagnostic capabilities - while bridging the gap between academic learning and real-world industry demands.

Structured Learning Modules

Training is divided into modules, each designed to build expertise step-by-step—from foundational concepts to full system management



Participants earn certifications after successful completion of each module validated through performance evaluations.

Each training module shall be of 2-3hours duration including 15min Q&A session.
Training Mode: On-site (Preferred) / On-line



Learning Modules - Overview

Transformers –
Basics (I)

Transformers –
Critical
Accessories (II)

Overview of
Accessories (III)

Transformer
Empirical
Equations (IV)

Online Monitors
of Transformers
(V)

Overview of
Major Raw
Materials (VI)

Factory
Acceptance Test
on Transformers
(VII)

Erection & Pre-
commissioning
Checks (VIII)

Site Tests on
Transformers
(IX)

Dissolved Gas
Analysis (DGA)
(X)

Transformer
Failure Modes
(XI)

Insulating Liquid
Tests
(XII)

Condition-Based
Maintenance
Strategies (XIII)

Transformer End-
of-Life Strategies
(XIV)

For further details, please contact cjayasenan@gmail.com

For more information visit <https://www.linkedin.com/in/cjayasenan/>

THANK YOU