ONLINE ADVANCED PROCESS ENGINEERING DESIGN WITH ASPEN HYSYS, EDR, FLARENET, ASPEN PLUS & HYSYS DYNAMICS, PIPENET & FLUIDFLOW



STARTS ON 12th & 13th DEC 2026
9:30 AM -3:30 pm IST

3500+ engineers trained in 55+ countries

Early bird discount available for limited time

Learn Process Simulation from The Best in Industry

Enhance Your Skills Today For Better Tomorrow

Converge Engineering ® Pvt. Ltd.
We Define & Resolve

WHY CHOOSE CEPL

Why is CEPL the best alternative for learning process calculation and simulation?

This course gives participants value for their money.
This course is an extension of the four-year engineering course. We teach them something, which they did not learn before. This is what makes this course interesting.

Our participants become experts in preparing any process calculations spreadsheet, as they are trained accordingly.

Our participants become experts in Aspen HYSYS, EDR, Flare System Analyzer, HYSYS Dynamics and FluidFlow.

Our participants become well equipped with interview questions.

They learn to prepare Simulation reports, PFD, P&ID and C&E Matrix.

Our participants solve real project problems, using the knowledge and expertise they gained in the course.

They learn how to prepare typical Process documents (Process Design Basis, OCP, Line List, PDS, Simulation report etc.).

MENTOR



Ajay Satpute

M.Tech (Chemical), IIT Madras

He is the Managing Director of Converge Engineering Pvt. Ltd. and an alumnus of the prestigious Indian Institute of Technology (I.I.T.), Madras with a Master's Degree in Chemical Engineering.

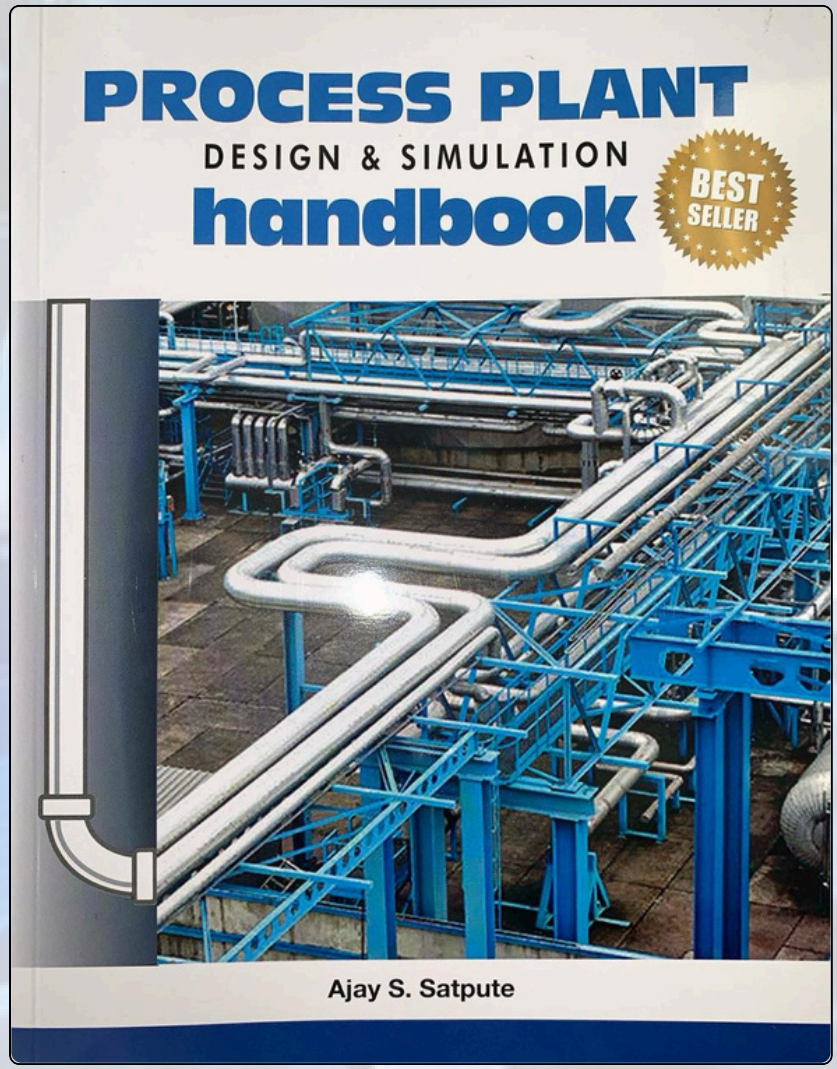
He is amongst the finest chemical engineers in the industry and is very wellknown for his outstanding skills and innovative solutions. He has vast knowledge and experience in several industries like Oil & Gas, Chemicals, Energy, Utilities, Fertilizers, Iron & Steel, and Pulp & Paper etc. in India, Middle East and the Far East. His efficient and accurate solutions are appreciated by all the clients he has worked with.

His contribution to knowledge-sharing websites has helped many practicing engineers. Over 60,000+ engineers have downloaded his process calculations spreadsheets and articles. He has also authored the best selling 'Process Design and Simulation Handbook' which is a step-by-step guide to simulation and 'Compressor Surge Analysis' book.

PUBLICATIONS

Author of best selling chemical engineering books





SYLLABUS

SESSION 1	Line sizing using excel
SESSION 2	Control Valve sizing using excel, VBA (Goal Seek).
SESSION 3	PSV sizing using excel
SESSION 4	Pump sizing using excel, Separator sizing using excel, Orifice sizing using excel, Plant design problem.
SESSION 5	Control Valve sizing using Aspen HYSYS, Pressure Safety Valve sizing- Aspen HYSYS, Line sizing- Aspen HYSYS, Pump sizing- Aspen HYSYS, Separator sizing- Aspen HYSYS and Orifice sizing- Aspen HYSYS.
SESSION 6	Heat exchanger sizing using EDR, Distillation column sizing in Aspen HYSYS, Blowdown utility - Aspen HYSYS, Depressuring utility - Aspen HYSYS.

SYLLABUS

SESSION 7	Aspen HYSYS simulation of a real project (industry problem), VBA Function, VBA Userform
SESSION 8	Process calculations for the same project using spreadsheets, Process simulation report, PFD, P&ID, HYSYS-Excel Linking VBA
SESSION 9	Cause & Effect diagram, Line list, Equipment list and other process deliverables, CTR preparation, PVRV sizing, Flare system design using Aspen Flare System Analyzer.
SESSION 10	Aspen Plus Batch Distillation, Aspen Plus Batch Cooling, Surge analysis with Pipenet Transient FluidFlow software
SESSION 11	Aspen HYSYS Dynamics problems
SESSION 12	Compressor surge analysis using Aspen HYSYS Dynamics

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TA'AHEEL
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Galaxy – Global Supplier to Global Brands
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Dhamra LNG
Vinati Organics Limited
ESSAR OIL & GAS
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MANY MORE .....

OUR ALUMNI ACROSS THE INDUSTRY

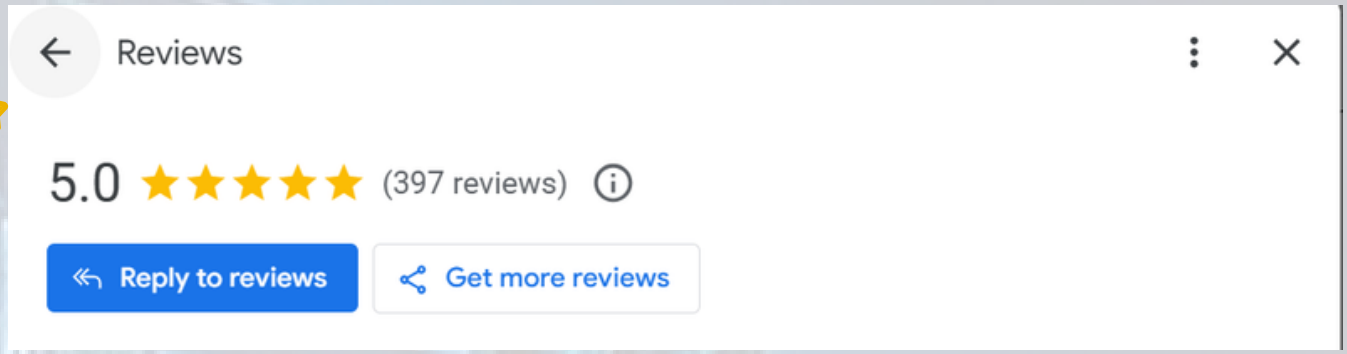
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OUR REACH



REVIEWS





Sushma Devalla
4 reviews • 0 photos

★★★★★ 2 weeks ago NEW

One of the best decisions I have taken in my life is to join the Advance Process Design Course from Converge Engineering Private Limited. Mr. Ajay Satpute has done a great job of sharing his knowledge and experiences throughout the course and I'm glad I have learnt a lot of new things in the course technical and non-technical. This course will be very helpful for everyone who wants to gain better knowledge in process engineering Oil & Gas Industry. It covers everything right from preparing datasheets to simulating a Dynamics Model in Aspen HYSYS. Once again thank you very much sir for your efforts for making the subject very interesting and providing steps to learn any concept in a simpler way which builds confidence in each one of us.

Divya Naik
1 review • 0 photos

★★★★★ 2 weeks ago NEW

I have done advanced process design course at Converge and highly recommend this course. Ajay sir has prepared well-structured syllabus of process design, and he is absolutely a very good teacher. My process engineering journey wouldn't have been smooth without this course; I am very thankful for this course and Ajay sir specially (He encourages you a lot, he is an optimist & his passion towards teaching make you want to learn). His both books are great for learning. I feel very lucky to have undertaken this course in my early career days. I would recommend this course to all those struggling with process design concepts, you would definitely not regret it.

syed fayaz ahmed
3 reviews • 5 photos

★★★★★ 2 weeks ago NEW

Mr. Ajay S. Satpute covered the Chemical Process Engineering Design and simulation from the basic classical excel sheet... View full review

Fahima Saeed Ali
1 review • 0 photos

★★★★★ 2 weeks ago NEW

I'm truly grateful for the opportunity to be a part of this Process Design Engineering course. These 12 sessions over... View full review

Olusegun Adegboyega
1 review • 0 photos

★★★★★ 31 weeks ago

For three months, it was a great experience; every session was deeply aligned with real-world process engineering... View full review

Anthony Koranteng Selormey
5 reviews • 0 photos

★★★★★ 31 weeks ago

The Process Design and Simulation course has been very insightful. You made learning more informative and easy to apply... View full review

Converge Engineering Pvt. Ltd.

An ISO 9001:2015 certified company

JOIN US NOW



Duration : 12 sessions
Saturday batch : 12th Dec 2026
Sunday batch : 13th Dec 2026
Timings : 9:30am - 3:30pm IST

Course Material includes:
1. 15+ Process calculation spreadsheets (Line, Pump, Separators, PSV sizing etc.,)
2. Best selling chemical engineering books Process Design & Simulation Handbook and Compressor Surge Analysis Book, used by many chemical engineers worldwide.
3. 6GB soft study material various simulation examples, chemical engineering books etc.

TERMS & CONDITIONS:

1) Fees once paid shall not be refunded under any circumstances.
2) For International participants (residing outside India):
   - Shipping charges payable extra depending on receiving country.
   - Only e-certificates shall be provided. In case, hardcopy required shipping charges shall be applicable.
3) Fees include:
   - Registration fees
   - Printed book shipped within India
   - Course completion certificate
   - Course Material provided.

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