Top 10 Questions About
Aspen Operator Training

1. What is Aspen Operator Training?

In April 2017, AspenTech acquired a copy of the rights to Inprocess Group's operator training simulator (OTS) software. Now available as Aspen Operator Training, this technology can be used to implement operator training solutions using models developed with Aspen HYSYS® Dynamics.

2. Can I use Aspen Operator Training with any distributed control system (DCS)?
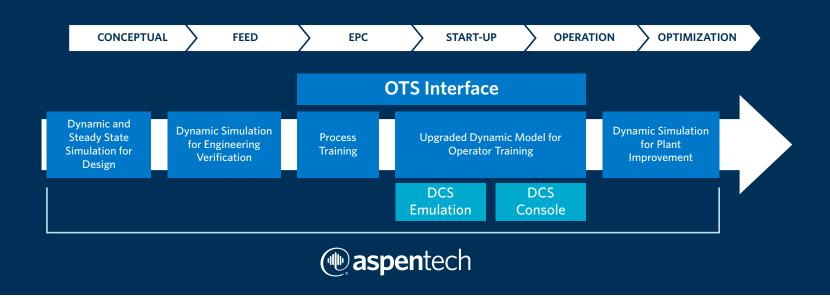
Aspen Operator Training enables communication between the simulator and the DCS through Object Linking and Embedding for Process Control (OPC). This software was used by Inprocess on over 30 OTS projects covering a wide range of DCS offerings. With a DCS-agnostic OTS solution, you can choose the optimal hardware, software and services combination tailored to the needs of your project.

3. Do I need to build a new dynamic model for the operator training simulator solution?

No, you can use the Aspen HYSYS dynamic models developed earlier in design and FEED. With the complete Aspen HYSYS Dynamics lifecycle, you can utilize dynamic models used in conceptual design and engineering verification to create process trainers and the operator training simulation solution.

4. Do I need the DCS to start training? Can I create a process trainer prior to the installation of the DCS?

Yes, Aspen HYSYS Dynamics can also be used to develop and deploy process trainers for operators and engineers. Aspen Operator Training provides the ability to generate and deploy interactive process graphics which users of any skill level can leverage. Aspen HYSYS Dynamics provides a wide range of control and logical operations for emulating a DCS if you want to deploy a process trainer before the DCS is ready.

| CONCEPTUAL | FEED | EPC | START-UP | OPERATION | OPTIMIZATION |

OTS Interface

| Dynamic and Steady State Simulation for Design | Dynamic Simulation for Engineering Verification | Process Training | Upgraded Dynamic Model for Operator Training | Dynamic Simulation for Plant Improvement |

DCS Emulation | DCS Console

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5. What happens if the OTS needs to be changed with modifications to the asset (plant/refinery/unit)?

OTS solutions can continue to deliver tremendous value after startup, but out-of-date solutions are often abandoned. Aspen HYSYS Dynamics is a trusted and well-known dynamic simulator used by oil and gas and engineering and construction companies all over the world.

With modifications to the asset, the underlying dynamic models can be adjusted to match the new state of the plant. With this ability, the OTS stays up-to-date to ensure the highest amount of process knowledge to continue to prevent safety incidents.

6. Can I use the OTS to further optimize my asset?

Yes, before and after the startup of the asset, the development of the OTS can give insights to improve the process and its stability. You can repurpose the dynamic model to continue to improve the asset with modifications.

7. Can I be sure that our operators will trust the accuracy of the OTS?

Aspen HYSYS Dynamics is trusted throughout the oil and gas industry for its rigor and the accuracy of its results. With accuracy in the underlying dynamic calculations, the OTS will more accurately represent the asset.

Additionally, unlike other dynamic simulators, Aspen HYSYS Dynamics makes it easy to compare and validate its results with plant data. With this increased accuracy, operators will continue to trust the OTS for updating and retaining their process knowledge.

8. Is Aspen Operator Training able to support complex OTS architectures?

Yes, apart from being used to provide an interface for the instructor to conduct training sessions, Aspen Operator Training is serving as a communication and synchronization layer to coordinate the multiple nodes of the OTS (HYSYS dynamic model, DCS emulator, SIS emulator, instructor station, operator stations, field operator station with 3D virtual reality, etc.).

9. Is Aspen Operator Training a completely new technology? Have others had success with it?

Aspen Operator Training is built on the technology developed by Inprocess Group that was used on over 30 OTS projects covering a wide range of DCS offerings. Inprocess has shared many of its successes with OTS customers, including with Yinson Production, Perstorp, Técnicas Reunidas and Cepsa. Please refer to the Inprocess website to learn more about how this technology has been applied in previous projects.

10. How do I get started? Who can help me?

AspenTech maintains a network of **implementation service providers** throughout the world. If you would like to learn more about Aspen Operator Training, please **contact us**.

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AspenTech is a leading software supplier for optimizing asset performance. Our products thrive in complex, industrial environments where it is critical to optimize the asset design, operation and maintenance lifecycle. AspenTech uniquely combines decades of process modeling expertise with big data machine learning. Our purpose-built software platform automates knowledge work and builds sustainable competitive advantage by delivering high returns over the entire asset lifecycle. As a result, companies in capital-intensive industries can maximize uptime and push the limits of performance, running their assets faster, safer, longer and greener.

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