

Aspen OptiPlant[®]

Study Guide for Certification



Prove Your Credibility

An Aspen OptiPlant Certified User demonstrates skills in building a 3D conceptual layout for Pre-Feed and Feed estimation purposes. A certifies user also showcase his/her skill set for analysis and reporting utilizing available functionalities. This person also demonstrates understanding of more advanced topics such as layout, Conceptual piping, estimation, and troubleshooting in OptiPlant.



Exam Scope for Aspen OptiPlant

- ☐ 3D Modeling
- ☐ Pipe Routing
- ☐ Estimation
- ☐ Troubleshooting
- ☐ Interface Knowledge

Grading

Grade	Weight
Multiple choice questions	45%
Lab task	55%
Total	100%

AspenTech

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Practice

AspenTech training is highly recommended though not required.

This guide contains 100% coverage of all objectives for the certification exam. You can use it as both a study tool and an on-the job reference (read pages 2-5).

Get Certified

In-person and remote testing are available. Please make sure that you select the correct Location/Time Zone.

After passing the exam you will receive an email to post your certificate and digital badge on social media, which is a cross-industry recognition of technical skills you may share on LinkedIn, as well as in your email signature. [View the instructions](#) on how to post your credentials on LinkedIn profile.

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE FOR ASPEN OptiPlant
3D Modeling	Project set up	Create a new project
		Identify the different folder structures available
	Equipment Modeling	Model Equipment
		Identify minimum data requirement
		Place Equipment to its specific location
	Structure Modeling	Model Structures
		Assign Member sizes
Equipment Spacing Rule	Data Files	Identify the data files
		Customize the data files
	Assign category	Assign Categories to different objects
		Remove the spacing violation
		Display the spacing violation
		Identify different methods to assign categories

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE FOR ASPEN OptiPlant
Rules For Equipment and Structures	Hard Volume type	Identify various hard volume types
		Usability of different HV's
	Rules related to rack volumes and BOP's	Identify the different service types
		Usability of service types
		Rack Volume Modeling
		Difference between rack volume and BOP's
Line List	Line List entry	Identify the different connection piping connections
		Add lines
	Data Files	Identify the minimum data files recommendations
		Customize the data files based on the project requirement
	Component list	Component list creation
	Advanced line list Features	Slope ratio
		Spec break
		Rules associated with insulation thickness

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE FOR ASPEN OptiPlant
Auto Routing	Routing Configuration	Batch file creation
		Exclusion list
	Run Batch	Route the lines
		Force rack
		Freeze lines
		Assign custom rules
Deliverables	Piping MTO	List the common reporting options
		Different type of MTO calculation
	Structure MTO	Steel materials take off
		Floor MTO
	Structure Member size Report	Identify the technical background and data files
	Rack Loading Report	Identify the technical background and data files
	Foundation MTO	Identify the technical background and data files

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE FOR ASPEN OptiPlant
Interfaces	Data Migration	Intergraph S3D
		Aspen CCE
		DXF
		AVEVA E3D/PDMS
Documentation	General	Use the Help Menu

Trainings:

1. EOP101: 3D conceptual modeling using Aspen OptiPlant
<https://esupport.aspentech.com/UniversityCourse?Id=a3p4P000000nBgQQAU>
2. EOP201: Advanced Training for Piping and Interfaces
<https://esupport.aspentech.com/UniversityCourse?Id=a3p4P000000nZxoQAE>

About Aspen Technology

Aspen Technology (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 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 safer, greener, longer and faster. Visit [AspenTech.com](https://www.aspentech.com) to find out more.

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