Aspen Fidelis

Study Guide for Certification

An Aspen Fidelis Certified User has a practical understanding and the hands-on skills required to build and deploy models to help predict and quantify system performance. Passing the exam demonstrates your skills to maximize overall facility production and revenue while simultaneously determining the economic impact of a potential failure. You become a valued expert who can generate accurate predictions of future performance, optimize and prioritize your investments, quantify your risks and increase the probability of meeting your objectives.

Exam Scope for Fidelis

- ☐ Introduction to Fidelis
- ☐ Fidelis User Interface/ Model Building
- ☐ Interpret Results/Charts
- ☐ Model Validation
- ☐ Turn up and Cold Stand-by
- ☐ Sparing and Start-up Failure
- ☐ Planned Maintenance
- ☐ Model Customization

Grading

Grade	Weight
Multiple choice questions	40%
Lab task	60%
Total	100%

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Who can take this certification?

This certification is a must-have for reliability, maintenance, or process engineers looking to illustrate proficiency in using Aspen Fidelis. The exam contains both multiple choice questions and a lab. We will provide the latest version of AspenTech software. All our exams are conducted with a proctor, either in-person or through remote testing.

Step 1. Prepare with training

AspenTech offers a variety of delivery methods in which you can take training. Complete foundation course: Introduction to Aspen Fidelis Reliability (AFR101) – 3 Days.

- Register for public training (face to face or virtual)
- Register for private training (face to face or virtual)
- Subscribe to eLearning (on-demand)

Step 2. Practice before exam

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

Step 3. Get Certified

You will have up to 3 hours to complete the exam.

You may take the exam after completing training or view our calendar to register on a different day or time. In-person and remote/virtual 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 to recognition of your technical skills. You may also use the digital badge in your email signature. View the instructions on how to post your credentials on LinkedIn profile.

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Introduction to Fidelis	Reliability Engineering	**Explain** reliability in engineering
		Understanding of Systems in Reliability
		Understanding of Equipment states in manufacturing
	Fidelis Concepts	**Explain** basis of Fidelis Simulations
		Explain Custom IDE usage
Fidelis User Interface/ Model Building	Flow Elements	**Illustrate** understanding of different flow elements
		Explain rules of flow elements
		Describe fundamentals of Fidelis Model building
	Unit Elements	**Explain** different unit elements
		Explain procedure to insert unit elements
	Simulation Settings	**Explain** usage of Run Parameters
		Understanding of Run Parameter Concepts
		Illustrate procedure to Run Simulation
Interpret Results/Charts	Culpability	**Read** culpability charts
		Explain Culpability chart Variables and parameters
	Unit	**Explain** Unit Capacity charts
		Explain Unit Capacity Over time charts
		Explain Unit Convergence charts
		Explain Unit Shutdowns and Slowdowns charts
	Pipe	**Explain** Pipe Production charts
		Explain Pipe Flow charts

	Tank	**Explain** Tank Levels charts
		Explain Tank Events charts
	Spare	**Explain** Spare Coverage charts
Model Validation	Model Validation Tab	**Explain** use of Model Validation
		Describe rules associated with Model Validation
Turn up and Cold Stand-by	Procedures	**Explain** the procedure to introduce Turn up
		Explain the procedure to introduce Cold Stand-by
		Describe the usage of Turn up and Cold Stand-by
Sparing and Start-up Failure	Introducing Start-up Failure	**Explain** the procedure to introduce Start-up Failure
		Describe application of Start-up Failure
	Sparing	**Explain** procedure to setup sparing for events
		Describe how to read Spare charts
Planned Maintenance	Using RAM Data	**Explain** Staggered PM using RAM data
	Schedule Distribution	**Explain** Staggered PM using Schedule Distribution
	Custom Code VSTA	**Explain** Staggered PM using VSTA code
Model Customization	Customization tab Probability View	**Explain** the different Key Routines in Fidelis
		Describe usage of Key Routines
	Simulation zoom	**Describe** how to achieve microscopic views in Lifecycle

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 to find out more.