

Aspen InfoPlus.21®

Study guide for certification





Prove Your Credibility



An Aspen InfoPlus.21 Certified User has an in-depth understanding and the practical skills required to perform fundamental tasks in administering Realtime databases. The user also demonstrates skills in all tasks related to administering the IP.21 database successfully. This person also demonstrates fluency with some advanced skills such as troubleshooting and using IP.21 with CIM-IO client and server.

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 2-4).

Practice

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.

Exam Scope IP.21

- Introduction
- Operations
- Maintenance
- Historian
- Aspen CIM-IO

Grading

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

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SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Introduction	What is Aspen InfoPlus.21	Explain what Aspen InfoPlus.21 is and where it can be used
		Describe the typical data flow to Aspen InfoPlus.21
	Major Components	Explain the major components
		Summarize definition records from various operational perspectives
		Distinguish between fixed and repeat areas
		Describe ADSA and layered products
		Identify different data sources for tags
		Describe the purpose of layered products
Operations	Requirements for IP.21	Describe different ways to visualize process data
		Create and Save a Trend Plot
		Differentiate between administrative and end users tools
		Differentiate ways to starting and stop the database
		Explain the Aspen IP.21 startup sequence
		Identify the fields required to create the tag
		Create a record and put in required fields
		Add new unit of measure
		Create a query record and automate it to run at regular interval

		Identify ways to monitor database health
Maintenance	IP.21 Database	Differentiate between external tasks and non-external tasks
		Add a new external task and accompanying record in Aspen IP.21
		Ensure IP.21 database starts automatically
		Describe database sizing
		Modify the size of the IP.21 Snapshot
	IP.21 Database	Describe the purpose RECSAVE and RELOAD
		Use 'Show References'
		Explain the consequences of reducing repeat area fields
	Administration	Configure Fields object in IP.21 Administrator
		Configure tags in IP.21 Administrator
		Delete an unwanted record for IP.21 database
		Describe the purpose of database snapshots
		Create hourly IP.21 Snapshot
		Differentiate between types of upgrades
		Describe the purpose of map records
Explain the importance of record usability		
Identify the command line parameters for TSK_DBCLOCK		
Explain methods to activate records		
Repeat Area Concepts	Explain repeat area concepts	
Maintenance	Security	Describe the process of securing Aspen InfoPlus.21

SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE
Historian	Major Components	Explain different components of historian
		Identify the files that compose a fileset
		Describe 'event.dat' and 'cache.dat'
		Configure a new repository
	Data Overview	Explain typical data flow to historize data
		Describe how to determine size of cache for a specific repository
	File Shifting	Explain criteria for a file set shift
	Data Compression	Explain the purpose of data compression in a tag
Summarize the benefits of data compression in a tag		
Aspen CIM-IO	Overview	Explain purpose of Aspen CIM-IO
	Major Components	Explain major components of CIM-IO
		Explain the purpose of Store and Forward
		Identify tasks and executables for Store and Forward
	Configuration	Identify the tools to configure CIM-IO on client and server
		Identify which service must be running for the CIM-IO tools to operate successfully
Configure a Cim-IO device to read data from OPC server		

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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