

AspenTech Inmation: System Administration Study Guide

Study Guide for Certification



Prove your Credibility

An AspenTech Inmation Certified User has the essential knowledge and practical skills needed to architect, install, configure and maintain an Inmation System. They possess a broad understanding of using myriad Datasources. Additionally, they can use Lua within the system, configure the Inmation OPC Server and Web API Server, and develop simple WebStudio compilations.



Exam Scope for AspenTech Inmation System Administration User Certification Exam (ACU-INM01)

- Understand the solutions that Inmation can provide
- Understand the role of Inmation component services
- Install and Configure Inmation Services
- Use DataStudio
- Key Inmaion Concepts
- Use Inmation to connect to a variety of data sources
- Troubleshoot common issues
- Expose data using the Inmation OPC server
- Use Lua to extend the functionality of Inmation
- Use the Web API
- Use WebStudio

Step 1: Take the Class: AspenTech Inmation: System Administration (INM101) – 3 days

AspenTech offers a variety of delivery methods in which you can take training.

- Register for [public training](#) (face to face or virtual)
- Register for [private training](#) (face to face or virtual)

Step 2: Review Scope and Objectives

This study guide covers all the objectives for the AspenTech Inmation: System Administration User Certification exam and serves as both a study tool and an on-the-job reference.

Step 3: Take the Exam: AspenTech Inmation System Administration User Certification (ACU-INM01)

The total time for the certification exam is three hours. The passing score is 70%.

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SCOPE	TECHNICAL CONTENT	COMPETENCY OBJECTIVE FOR ASPENTECH INMATION
Understand the solutions that Inmation can provide	Understand the solutions that Inmation can provide	Understand the main functions of Inmation
Understand the role of Inmation component services	Understand the role of Inmation component services	Understand the role of the Core component
Understand the role of Inmation component services Install and Configure Inmation Services	Understand the role of Inmation component services	Understand the role of the Connector component
		Understand the role of the OPC Server component
		Identify the repository
		Explain the difference between active and passive connections
Install and Configure Inmation Services Use DataStudio	Install Inmation Services	State the uses of the Inmation Node Setup
		Identify the parameters used in a command-line installation
		Create and configure objects in DataStudio
	Configure Inmation Services Use Object Models	Demonstrate how to configure an Active Connection
		Understand how to configure a Passive Connection
		Describe the Object Models in an Inmation System
Use DataStudio Key Inmation Concepts	Use Object Models Use Displays	Create, delete, move objects in the Models panel in DataStudio
		Recognize basic Data Processing objects of the I/O Model
	Identify the methods for retrieving and displaying real-time values of an object	
	Use Displays Key Inmation Concepts	Identify the methods for retrieving and displaying historical values of an object
Explain latency and buffering		
Key Inmation Concepts Connect to Data Sources	Key Inmation Concepts	Comprehend object-level security
		Manage Data Store Sets
		Utilize Profiles and Users in the Access Model
Connect to Data Sources	OPC Datasources	Utilize Profiles and Users in the Access Model

		Describe Data Persistency options
Connect to Data Sources Troubleshoot Common Issues	OPC Datasources Datasources with Script Support	Locate certificates within the file system
		Explain the procedure for OPC UA certificate exchange
		Understand the use of Rule objects in browsing Datasources
		Explain the process of receiving events from an OPC A&E server
	Datasources with Script Support Logging and Performance Metrics	Identify uses of the MQTT Datasource
		Configure the MQTT Datasource
		Configure the ODBC Datasource
		Describe the use of the Dropzone Datasource
Troubleshoot Common Issues Use Lua to extend the functionality of Inmation	Logging and Performance Metrics Use Common Lua Functions	Identify the location of logs relating to Component Service connections
		Use Performance Counters to monitor the status of Inmation components
		Describe the usage of a simple function from the syslib library
Use Lua to extend the functionality of Inmation Expose Data Using the Inmation OPC Server	Use Common Lua Functions Use Inmation OPC Server	Utilize the getvalue() and setvalue() syslib functions to make a calculation
		Explain the usage of the mass() syslib function
		Restrict object access to the OPC DA Server
Expose Data Using the Inmation OPC Server Use the Web API	Use Inmation OPC Server Install and Configure the Web API	Create an OPC UA Server and Endpoint
		Restrict object access to the OPC UA Server
		Explain the role of the Web API
Use the Web API Use WebStudio	Install and Configure the Web API Use the Web API	Understand where the Web API service fits into the architecture of an Inmation system
		Use standard endpoints

		Install the Web API Service
		Authenticate with the Web API
	Use the Web API WebStudio Fundamentals	Define the term "Advanced Endpoint"
		Describe Information WebStudio
Use WebStudio	WebStudio Fundamentals Configure Index Page	Use WebStudio Widgets to retrieve real-time and historical data
		Describe the use of simple WebStudio Widgets
		Identify types of dataSource in the Widget configuration
		Configure the WebStudio Index Page