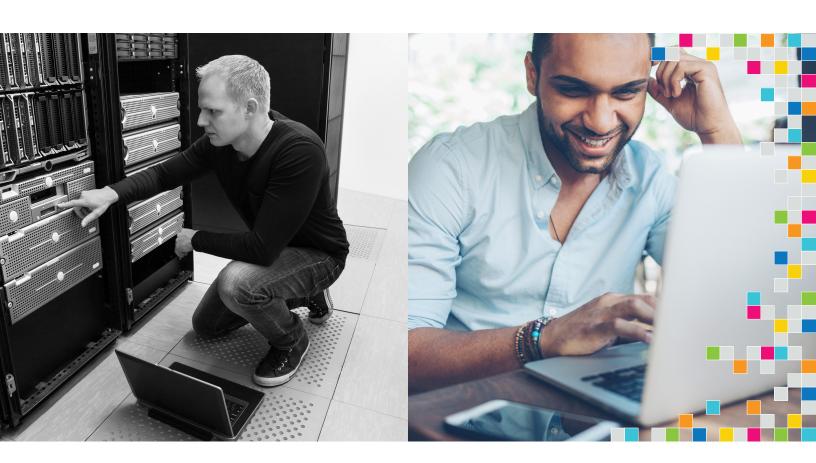# Asigra

Asigra Training Offering Overview

Version 14.x

Certification Paths

Asigra certification delivers an eLearning self-paced solution to Asigra partners who need to develop "Design", "Deployment", and "Maintenance" skills with the Asigra product (architecture, components, configuration, and usage).

Obtaining the right training for your team members to elevate and maximize their Asigra product knowledge and proficiency can drive your entire organization. Asigra's certification program has been redesigned to help you identify the intended specializations of focus, determine the level of knowledge required, and validate your team's learning objectives.

The certification program offers three distinguished levels of expertise including: Asigra Certified Associate (ACA), Asigra Certified Specialist (ACS), and Asigra Certified Master (ACM). The program is designed based on an individual's job title and provides certification based on a career path, while also enabling advancement based on an individual's work experience and the intended specialization of focus.

A. — Certified — **Associate** Asigra.	A. — Certified — **Specialist** Asigra.	A. — Certified — **Master** Asigra.
Career Path	**Career Path**	**Career Path**
Backup and Recovery Team Backup Administrators	Datacenter / Vault Team System Administrator	Datacenter / Vault Team Solution Architects / Consultants

What's New? Role-based Certifications

The Asigra certification program benefits our partners at three levels: Technical Individual, Technical Team, and Partner/SP organization.

Technical Individual

- Validates person as a Cloud Backup and Recovery Specialist (certification credentials, logo etc.).
- Gains critical skills and techniques to optimize service deployments.
- Maintains and improves professional competence (becoming a trusted advisor versus a general technologist).

Technical Team:

- Increases ability to identify and resolve issues quickly.
- Ensures consistent high-quality service delivery.
- Implements best practices for the team.
- Enhances team productivity.

Partner/SP Organization:

- Certifies personnel to help increase sales and market share.
- Increases your team's ability to sell more Asigra Products/ Solutions.
- Lowers operational costs because a well-trained team is an effective team.
- Develops innovative solutions for customer on-boarding processes.
- Helps organizations shorten sales cycles and close larger business deals.

Asigra Fundamentals

Description

This course provides an overview of Asigra Cloud Backup™ terminology and core components that make up your Asigra environment. It provides a technical overview of architectural considerations, resource planning requirements, and installation options for deploying Asigra software. This course mainly focuses on operational functions related to the DS-System and the Agentless DS-Client, including backup and recovery processes.

Delivery Method: eLearning
Duration: 6 Hours

Prerequisite Knowledge/Skill Set

To understand the content and successfully complete this course, a student must have a suitable knowledge/skill set of:

- Concepts and technologies used in backup and recovery solutions
- Basic understanding of the following areas:
    - Operating system (Windows, Linux)
    - Storage types and technologies (DAS, SAN, and NAS)
    - Databases (SQL, PostgreSQL)

Who Should Attend

This course is designed for system administrators, partners, system engineers, technical support personnel, Pre-sales engineers, backup administrators, backup operators, and others who are responsible for installing, configuring, and managing the day-to-day operations of the Asigra Cloud Backup software.

Next-Step Certification

Successful completion of this course helps you prepare for the Asigra Certified Associate (ACA), or Asigra Certified Specialists (ACS), and the Asigra Certified Master (ACM) Certification.

Module 1: Introduction to Asigra Cloud Backup™

Lesson 1: Software Overview

- History of Asigra Cloud Backup
- Asigra agentless technology
- Benefits of agentless technology
- Asigra Cloud Backup architecture
- Asigra Cloud Backup components

Lesson 2: Data Security and Information Management

- Online file generations
- Master reconstruction process
- Generations recycling process
- Common file elimination (deduplication)
- Common file libraries
- Compression
- Security and encryption methods
- Layers of protection

Module 2: DS-System Deployment and Configuration

Lesson 1: Introduction to DS-System

- DS-System role
- Core components
- Deployment configurations (Standalone, N+1)
- DS-System types
- Installation
- Orientation to the DS-Operator
- License validation
- Creating customers
- Creating DS-Clients

Lesson 2: DS-System Management

- DS-System administrative processes
- DS-System admin types
- Autonomic Healing process
- Scheduling DS-System tasks
- DS-System logs
- DS-System reports

Module 3: DS-Client Deployment and Configuration

Lesson 1: Introduction to DS-Client

- DS-Client role
- Core components
- Setting up encryption keys
- Deployment configurations (Standalone, Grid)
- DS-Client database types
- DS-Client deployment
- Performing DS-Client registration
- Orientation to the DS-User
- Configure the following:
  - Setup
  - Defaults
  - Notifications
  - Parameters
- DS-Client buffer
- Local storage
- Local storage cache

Lesson 2: LAN Storage Discovery

- LAN Storage Discovery role
- LAN Storage Discovery benefits
- LAN Storage Discovery phases
- Triggering LAN Storage Discovery
- Generating reports
- Viewing and analyzing reports

Module 4: Backing Up and Optimizing Your Data

Lesson 1: Data Protection Overview

- Enterprise data protection
- The backup process
- Backup process flow
- Defining a backup set
- Backup set types
  - Online
  - Self-Contained
  - Local Only
  - Statistical
- Creating a backup set
- Triggering backup jobs
- Backup set status
- Cloning Statistical into Online

- Converting Local-Only to Online
- Initial seeding (Initial Backups)
- Full and incremental forever backups

Lesson 2: Working with Backup Sets
- Protecting your environment
- Create the following backup sets:
  - File System
  - Continuous Data Protection (CDP)
  - Microsoft SQL Server
  - Microsoft Exchange Server
  - VSS-aware
  - VMware VADP
  - Physical to Virtual
  - VM replication
  - Backup from the cloud
- Scheduling activities

Lesson 3: Recovery and Data Management

- Restoring from backups
- Deleting data
- Creating retention rules
- Active and passive data management
- Performing validation restore
- Performing disaster restore (Disc/Tape)

Asigra Certified Associate (ACA)

This certification is intended for individuals who are part of the Backup and Recovery team and want to validate their technical knowledge and competency in the Asigra DS-Client.

The Asigra Certified Associate program validates skills and technical competencies to:

- Install, configure, and manage the Asigra Mobile family.
    - Deploy the DS-Mobile and DS-Notebook client software in either a physical or a virtual environment.

- Describe the function and maintenance of the DS-Mobile and DS-Notebook clients.

- Manage and monitor the Asigra DS-Client.

- Perform basic troubleshooting tasks and identify information-gathering steps.

- Monitor the DS-Client by analyzing reports and reviewing logs.

- Define and explore different retention policies when protecting data.kept on the DS-System Online Storage and when it should be archived.

The candidate will be required to take the following:

ACA Certification Prerequisites	
Course	Delivery
Asigra Fundamentals	eLearning

ACA Certification Requirements	
Module	Delivery
Backup Data Retention	eLearning
DS-Client Administration	eLearning

Exam Details:

No. of Questions: 40 ■ **Duration: 60 Mins** ■ **Passing Score: 75%**

A.

— Certified —
Associate

Asigra.

Asigra Datacenter Implementation and Maintenance

Description

This course is intended for individuals who are part of the Asigra Vault or Datacenter team and are tasked with deploying, operating, and performing the day-to-day operations of the Asigra Vault. Increase your professional value by learning and applying best practices and infrastructure design concepts in your Asigra Datacenter. The course also demonstrates the integrated tools in the DS-System used for auditing, monitoring, maintaining, and performing disaster recovery for the entire Asigra vault.

Who Should Attend

This course is intended for system administrators, partners, professional services consultants, solutions engineers/architects, and IT professionals who are responsible for the advanced configuration, administration, and management of the Asigra Cloud Backup software.

Delivery Method: eLearning
Duration: 22 Hours

Prerequisite Knowledge/Skill Set

The Asigra Fundamentals course is required prior to attending this course.

Next-Step Certification

Successful completion of this course helps you prepare for the Asigra Certified Specialist (ACS), and the Asigra Certified Master (ACM) Certification.

Module 1: License Administration

- DS-License server functionality
- Licensing models and types
- RLM components
- Server deployment and installation
- Emergency vs. Production DS-License Server
- Allocating license capacity
- Auto expansion feature

Module 2: Advanced Infrastructure Configuration

- Deploying an N+1 DS-System
- DS-System online extensible storage
- Single vs. multiple storage locations
- Managing storage groups
- Adding storage locations
- Retiring storage locations
- Enabling storage snapshots
- Building a DR site
- Deploying a replication DS-System

Module 3: DS-System Administration

- Monitoring
- Logs
- Global notification settings
- Reports
- System admin
- Autonomic Healing – best practices
- Advanced parameters
- Schedules
- Working with customer accounts
- DR Drill RequestsDefaults

Module 4: Disaster Recovery & Troubleshooting

- Disaster recovery planning
- DS-License disaster recovery
- DS-System disaster recovery
- Migrating the DS-System DB to new hardware
- Extensible storage disaster recovery
- Troubleshooting common implementation issues
- Troubleshooting remote Microsoft SQL Server connectivity issues
- Troubleshooting reports

Asigra Certified Specialist (ACS)

This certification is intended for individuals who are part of the Asigra Vault or Datacenter team and want to validate and extend their technical knowledge and competency in deploying and managing advanced infrastructure design in the Asigra vault; specific focus is on the BLM-Archiver, DS-Billing, and the DS-NOC.

The Asigra Certified Specialist program validates skill sets and technical competencies to: Install, configure, and manage the Asigra Mobile family.

■ Configure Asigra BLM for data archiving efficiency and storage optimization.

■ Build your billing and customer invoicing system using Asigra DS-Billing.

■ Deploy, install, configure, and manage the DS-NOC.

ACS Certification Prerequisites	
Course	Delivery
Asigra Fundamentals	eLearning
Asigra Datacenter Implementation & Maintenance	eLearning

ACS Certification Requirements: Select Two	
Specialization Course	Delivery
BLM Archiver: Configuration & Usage + Exam	eLearning
DS-Billing: Configuration & Usage + Exam	eLearning
DS-NOC: Configuration & Usage + Exam	eLearning

Exam Details:

No. of Questions: 50 ■ **Duration: 90 Mins** ■ **Passing Score: 75%**

A.

— Certified —
Specialist

Asigra.

Virtual Data Protection & Recovery

Description

This course covers Asigra Cloud Backup® software's features designed for virtualized data in VMware and Microsoft Hyper-V environments. Students will be guided through engaging multimedia simulations and provided best practices for configuration and operation of these features in their environment, which includes: Students will be guided through engaging multimedia simulations and provided best practices for configuration and operation of these features in their environment, which includes:

- Full backup and restore of the entire VMs deployed in VMware and Hyper-V environments
- File Level Restore (FLR)
- Physical-to-Virtual machine conversion (P2V)
- Remote and Local DS-VDR
- Instant Recovery (IR)
- VM replication

Who Should Attend

This course is intended for system administrators, partners, professional services consultants, solutions engineers/ architects, and IT professionals who are responsible for the advanced configuration, administration, and management of the Asigra Cloud Backup software.

Delivery Method: eLearning
Duration: 4.5 Hours

Prerequisite Knowledge/Skill Set

The Asigra Certified Specialist (ACS) course is required prior to attending this course.

Next-Step Certification

Successful completion of this course helps you prepare for the Asigra Certified Master (ACM) Certification.

Module 1: Virtual Data Protection & Recovery Overview

- Describe Asigra Virtual Data Protection and Recovery functionalities and key concepts for:
  - VMware vSphere
  - Microsoft Hyper-V

Module 2: Virtual Data Protection

- Introduction
- Protect Virtual Machines using a VMware VADP backup set
- Identify VMware Transport Libraries used to protect virtual machines:
  - NBD / NBDSSL
  - SAN
  - HotAdd
- Requirements & Limitations
- Backup Options
- Understand Microsoft Hyper-V VSS-aware backup set
- Meeting backup requirements
- Explore backup policy options
- Describe Microsoft Hyper-V Incremental backup

Module 3: Virtual Data Recovery

- Introduction
- Explore VMware VADP restore options:
  - VM Level Restore
  - VM Disk Level Restore
  - File Level Restore (FLR)
- Explore Microsoft Hyper-V restore options:
  - VSS Restore
  - File Restore
  - File Level Restore (FLR)
- Insights into Instant Recovery (IR)
- Recover VMs using Instant Recovery for VMware VADP & Microsoft Hyper-V
- What is Local DS-VDR?
  - VMware VM Cloning
  - Physical-to-Virtual Machine Conversion (P2V)
- Remote DS-VDR Usage and Key Concepts
- Recover VMs using Remote DS-VDR for VMware VADP & Microsoft Hyper-V
- Insights into VM Replication
  - VMware VM Snapshot Replication
  - Microsoft Hyper-V Checkpoint Replication
  - Failover
  - Failback

Asigra Certified Master (ACM)

This certification is designed for experienced system administrators, solution architects, and consultants. The certified candidate will be able to provide architectural design and deployment strategies as well as perform in-depth analysis and troubleshooting of Asigra Cloud Backup environments. ACMs also receive special consideration regarding support tickets.

The candidate will be required to take the following:

ACM Certification Prerequisites	
Course	Delivery
Asigra Certified Specialist	eLearning
Virtual Data Protection & Recovery	eLearning

Exam Details:

No. of Questions: 50 ▪ Duration: 90 Mins ▪ Passing Score: 75%

A.

—— Certified ——
Master

Asigra.

Asigra, Inc.

Recertification

To maintain the standards of the Asigra certifications, and to ensure that the knowledge and skills of the certification holder are kept current and relevant, we want you to validate your continued expertise though a process called recertification.

We want the Asigra certification program to match the needs of each candidate and allow the flexibility to serve individual and organizational needs.

To recertify your current certification(s), please follow the recertification path below:

Current Certification Level	Obtaining Your New Certification
Asigra Certified Associate (ACA)	Pass the new Asigra Certified Associate (ACA) Course
Asigra Certified Professional (ACP)	Pass the Asigra Certified Specialist (ACS) Refresh Course (Asigra Datacenter Implementation & Maintenance Course)
Asigra Certified Engineer (ACE)	Pass the Asigra Certified Master (ACM) Refresh Course (Asigra Virtual Data Protection & Recovery Course)

For more information or if you have any questions about training and certification, please contact client.services@asigra.com

About Asigra

Trusted since 1986, Asigra technology is proudly developed in and supported from North America, providing organizations around the world the ability to quickly recover their data from anywhere through a global network of IT service providers. As the industry's most comprehensive data protection platform for servers, virtual machines, endpoint devices, databases and applications, SaaS and IaaS based applications, Asigra lowers the total cost of ownership, reduces recovery time objectives, and eliminates silos of backup data by providing a single consolidated repository with 100% recovery assurance and anti-ransomware defense. The company has been recognized as a three-time Product of the Year Gold winner by Techtarget for Enterprise Backup and Recovery Software and positioned well in the market by analysts.

More information on Asigra can be found at www.asigra.com