

## Exam Outline

# FlashArray™ Advanced Implementation Practical Examination

## Exam Overview

In this session, Implementation Engineers will perform a remote upgrade of a FlashArray. The Everpure instructor will provide remote console and video access to a FlashArray and the Implementation Engineer will guide the trainer through adding capacity, evacuating capacity, non-disruptive hardware and software upgrade of controllers, and all relevant health checks and support requirements. The Implementation Engineer will instruct the trainer on the physical aspects and then remotely control all software aspects via remote console access. All appropriate documentation should be referenced and followed. It is required to pass the Advanced Implementation Practical Exams and the FlashArray Implementation Specialist certification in order for partners to deliver hardware non-disruptive upgrades.

## Exam Outline

During this session, Implementation Engineers will need to demonstrate proficiency in the following:

### Relevant pre-installation tasks

- List contents of physical packages
- Summarize site requirements for installation (power and NVRAM, etc.)
- Describe opening a support case (when and why)

### Adding capacity to a FlashArray

- Identify write groups
- List capacity limitations
- Outline cabling of expansion shelf

### Evacuating capacity of a FlashArray

- Perform health checks preparatory to evacuation
- Understand differences between shelf and pack evacuation

- Detail procedure for evacuating capacity when the array is full
- Begin, monitor, and complete the evacuation
- Describe dispersed write groups, slow evacuations, and potential failures

### Replacing FlashArray Controllers

- Run appropriate health check prior to upgrade
- List and describe potential impact to hosts
- Address cpmcerms such as vVols, ActiveCluster, tunables
- Upgrade or downgrade Purity as necessary
- Complete the controller upgrade non-disruptively
- Run appropriate health checks



### Duration

- Single to Multi-Chassis 2 Hours (Capacity of 4 participants)
- Upgrades (First Gen to //S): 2-4 Hours (Capacity of 2 participants per session)



### Intended Audience

- Employees
- Partners



### Course Type

Instructor-Led



### Recommended Next Steps

Review the [Service Specialization Guide](#)

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