

**Course Description:** The Data ONTAP GX Fundamentals course is a comprehensive, though not exhaustive, learning object designed to teach the basics of Data ONTAP GX.

At the end of this course, the student will know the evolution of Data ONTAP GX, dating back to the 1980s, understand the benefits of this product, be able to explain the architecture and functionality of the product, and be able to install, configure, manage, and troubleshoot Data ONTAP GX clusters

**Who Should Attend:** This instructor led course is for customers who perform basic support and administrative functions on a NetApp® storage system running the Data ONTAP GX operating system software.

**Prerequisites:** Students should have taken Data ONTAP Fundamentals (DOTF) or Data ONTAP Overview.

**Benefits of Attendance:** Upon completion of this course, students will be able to:

- Describe the major principles associated with Data ONTAP GX
- Describe how an N-blade and a D-blade interact with each other
- Describe how a replicated database (RDB) application communicates among the members in its ring
- Describe the difference between an mroot volume and a virtual server root volume
- Create a cluster made up of multiple nodes
- Create an aggregate
- Create two virtual servers, two additional volumes in each, and two three-volume name spaces
- Configure an active-active relationship between a pair of nodes
- Configure network interfaces for a virtual server
- Create an NFS export and a CIFS share

### Course Outline:

Major principles associated with Data ONTAP GX

N-blade and a D-blade interactions

Replicated database (RDB) application communication

Difference between an mroot volume and a virtual server root volume

Clusters made up of multiple nodes

Aggregates

Virtual servers, additional volumes, and two three-volume name spaces

Active-active relationships between pairs of nodes

Network interfaces for a virtual server

NFS export and CIFS share

Moving a volume from one node to another

SnapShot policy for a volume

Load sharing (LS) mirrors

Disaster recovery (DR) mirrors

Promoting a mirror to be a read-write volume

Diagnosing a VLDB crash and recovering from it

Upgrading the CFE (firmware) on a node

Upgrading the Data ONTAP GX software on two nodes with no down time