

Advance Your Career with Fibre Channel Knowledge

Live Webcast

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10:00 AM PT/1:00 PM ET

Today's Speakers



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Broadcom
FCIA Board of Directors



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Electrical Engineer
Amphenol

About the FCIA

“The Fibre Channel Industry Association (FCIA) is a mutual benefit, non-profit, international organization of manufacturers, system integrators, developers, vendors, industry professionals, and end users.”



About the Fibre Channel Industry Association (FCIA)



25+ Years
Promoting Fibre
Channel Technology



Industry Leading
Member Companies



150M+ FC Ports
Shipped Since 2001

Agenda

- Fibre Channel Opportunities
 - Career path
 - Fibre Channel's role in newer technologies
 - Ex: NVMe-oF™, Kubernetes
- Plethora of training resources
 - Vendor training and certification programs
 - Educational resources from the industry
- Getting started with standards
 - Professional development
 - Personal perspective



Opportunities

- Fibre Channel innovation continues to grow
- Fibre Channel experts retiring means door are opening for the next generation
- Multitude of training resources outside of academia covering:
 - FC basics
 - Zoning
 - Fabric notifications
 - Standards development
 - And more



FC's Role in Newer Technologies

- FC 25+ years as the leader – Still learning new tricks!
 - Fibre Channel's leadership often make it the basis of new technologies
 - High Performance / Low latency
 - Vast extensibility / management at scale
 - Security
 - Unquestionable reliability
 - NVMe over Fabrics – Multi Transport
 - FC is the first and most widely deployed transport for NVMe-oF in production
 - Bare-Metal, Virtualization, Containers
 - Native FC support for Kubernetes
 - Air-Gap security
 - FC-SP-2, Multi-layers of data security

Where to Find Training Resources

- Vendors

- Broadcom
- Cisco
- Teledyne LeCroy Austin Labs
- Product specific training

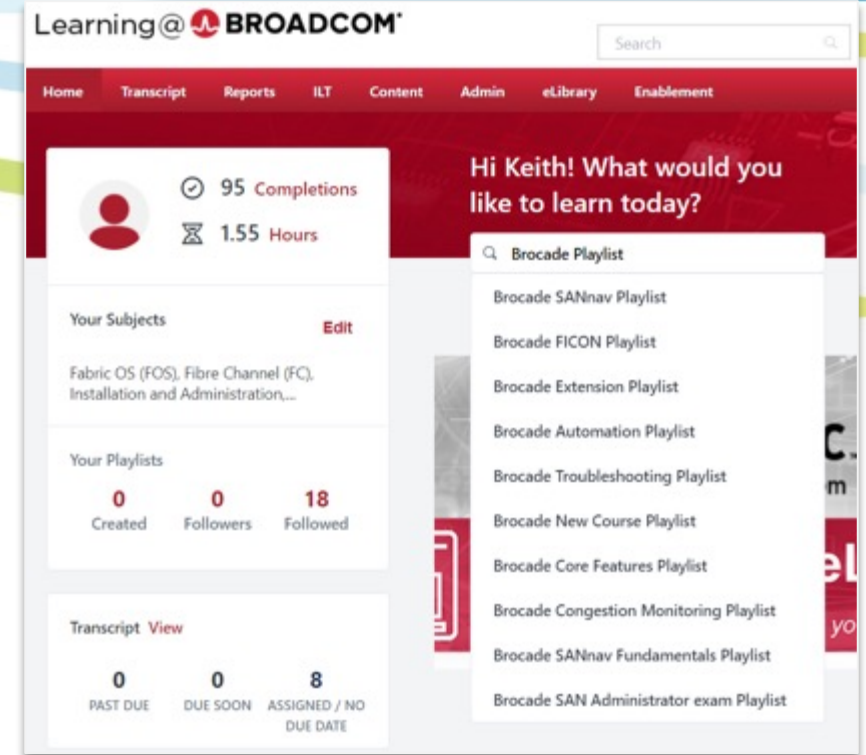
- Industry Associations

- FCIA: fibrenchannel.org
- SNIA - Storage Networking Industry Association: snia.org
 - [SNIA YouTube Fibre Channel Playlist](#)



Broadcom SAN Training

- **Over 80 free online training courses – Available 24/7**
 - Fibre Channel SAN basics
 - Gen 6 & 7 switches and directors
 - Installation and configuration
 - SANnav Management Portal
 - Protocol training (FC / NVMe / FICON)
 - Advanced features
 - Troubleshooting
- **Available in the Broadcom Learning Portal**
 - Courses are grouped into topical playlists for easy searching
- **To how to register and access training**
 - Brocade Education
www.Broadcom.com/brocade-education
 - YouTube
[Search for “Brocade Education”](#)



Broadcom – Brocade SAN Certifications

Brocade SAN Administrator exam



- Validates knowledge of Fibre Channel, Brocade products and Fabric OS features
 - Foundational exam

What do you get:

- ✓ Recognition and knowledge from the process of becoming a Brocade SAN Administrator, SAN Professional and Gen 7 SAN Specialist
- ✓ Permanent transcript on Learning Portal
- ✓ Downloadable certificate

Brocade SAN Professional exam



- Validates knowledge of advanced Brocade SAN features and technologies
 - Next-level exam to the Brocade SAN Administrator exam

Brocade Gen 7 SAN Specialist exam



- Validates knowledge of Brocade Gen 7 hardware products and latest Fabric OS v9 features
 - Shorter Targeted Exam

- The same high-quality test questions in industry certification exams without the requirement of a proctored environment
- Available in the Broadcom Learning Portal after completing the prerequisite classes

Cisco Training

- Many training courses can be taken stand-alone or followed by certification exams for additional benefit
- Training is available at: <https://learningnetworkstore.cisco.com>
- Product training highlights
 - Cisco MDS 9000 Series Switches Overview (DCMDSO): Now contains SAN Analytics presentation
 - <https://learningnetworkstore.cisco.com/on-demand-e-learning/cisco-mds-9000-series-switches-overview-dcmdso-v1-5-elt-dcmdso-v1-024785>
 - Estimated Duration: 7-8 hours
 - Configuring Cisco MDS 9000 Series Switches (DCMDS): Now contains SAN Analytics lab
 - <https://learningnetworkstore.cisco.com/on-demand-e-learning/configuring-cisco-mds-9000-series-switches-dcmds-v3-5-elt-dcmds-v3-025345>
 - Associated Certification: [CCNP Data Center](#)
 - Associated Exam: [300-625 DCSAN](#)
 - Estimated Duration: 4-days



Cisco Training Cont'd

- Cisco Certified Technician Supporting Cisco Data Center System Devices (DCTECH): Focused more on UCS (with MDS options)
 - <https://learningnetworkstore.cisco.com/cisco-certified-technician/supporting-data-center-system-devices-dctech-v3-0-elt-dctech-v3-023565>
 - Associated Certification: [CCT Data Center](#)
 - Associated Exam: [010-151 DCTECH](#)
 - Estimated Duration: 7-8 hours
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR): contains ACI + UCS + Nexus + MDS + HX
 - <https://learningnetworkstore.cisco.com/on-demand-e-learning/implementing-and-operating-cisco-data-center-core-technologies-dccor-v1-0-elt-dccor-v1-023427>
 - Associated Certification: [CCNP Data Center](#), [CCIE Data Center](#)
 - Associated Exam: [350-601 DCCOR](#)
 - Estimated Duration: 5-days



Teledyne LeCroy-Austin Labs Training

- Austin Labs is Teledyne LeCroy's dedicated training and testing division. Our engineers and trainers are experts in networking, fabric and storage protocols. Classes are offered both virtually and on-site.
- Austin Labs Fibre Channel Training Classes (4 Days Each)
 - Fundamentals of Fibre Channel – [Here](#)
 - NVMe over Fibre Channel – [Here](#)
 - Fibre Channel over Ethernet – [Here](#)
 - Training Class FAQ – [Here](#)
- General Austin Training & Testing Services Information - [Here](#)
- Teledyne Fibre Channel Resources [Here](#)



FCIA Training Resources

- FCIA Education Committee
 - Focused on delivering FC education
 - Built a webcast library over the last 5 years
 - Over 30 highly-rated on-demand webcasts
 - FC Basics
 - FC Zoning
 - 64GFC
 - FC Performance
 - And more
- FCIA Educational Resources
 - Comprehensive list of vendor training
 - White papers
- Available at: <https://bit.ly/FCIATraining>

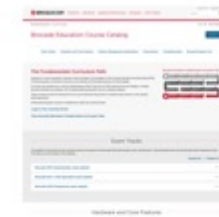


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Explore These Fibre Channel Training Courses



UNH-IOL

- Training future engineers
 - Testing
 - Plugfests
 - Tech talks
- Published test plans
 - Debug tools
 - Aids in learning fundamentals of any technology of interest



University of New Hampshire
InterOperability
Laboratory

FIBRE CHANNEL
TUTORIAL



Other Training Resources

- Product Specific
 - Vendor provided product documentation as related to it's Fibre Channel connectivity
- Operating Systems
 - Specific storage connectivity, Storage network, Multipath
 - Storage performance tuning guides

Getting Started with Standards

- Don't be intimidated
- Organizations like T11 are open to new members
- Much to be gleaned from the combined knowledge base
- Collaborative community
- Mentorship, relationships, networking



Summary and Q&A

- Next generation of IT professionals and engineers have a need for Fibre Channel specific education
- Fibre Channel knowledge and experience can boost your employment value
- Numerous Fibre Channel vendor companies offer educational resources both virtual and hands-on
- Stay abreast of the latest FC developments with the FCIA education resources

After this Webcast

- Please rate this event – we value your feedback
- We will post a Q&A blog at <http://fibrenchannel.org/> with answers to today's questions
- Follow us on Twitter @FCIAnews for updates on future FCIA webcasts
- Our library of FCIA on-demand webcasts <http://fibrenchannel.org/webcasts/> includes:
 - Fibre Channel Fundamentals
 - FC-NVMe
 - Long Distance Fibre Channel
 - Fibre Channel Speedmap
 - FCIP (Extension): Data Protection and Business Continuity
 - Fibre Channel Performance
 - FICON
 - Fibre Channel Cabling
 - 64GFC
 - FC Zoning Basics



Thank You