



L3HARRIS®
FAST. FORWARD.

2026 TECHNICAL
TRAINING CATALOG

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TRAINING SERVICES

L3Harris is dedicated to supporting those who keep our communities and resources safe—law enforcement, fire services, utilities, and emergency medical services—all of whom rely on seamless and dependable communication. Our mission is to ensure your team is equipped with the knowledge, confidence, and practical experience to effectively operate and maintain your communication system, maintaining a vital lifeline.

We design our training with the learner in mind, starting with professionally developed, real-world application and content. Our courses are tailored for technicians, administrators, supervisors, and end-users, maximizing the value of the information conveyed.

Recognizing the diverse challenges faced by public safety workers, our training programs are customized to address these needs with practical, hands-on instruction, highly accessible virtual classrooms, and on-demand online training. We utilize a blended approach, combining immersive, hands-on experiences, lab environments, and online learning options to meet learners with the right type of instruction at the right time.

Our instructors are experts in L3Harris technology and offer flexible training options. Whether you prefer the virtual comfort of your home or office, safe in-person sessions at our Lynchburg, Virginia training facility, or the convenience of your own location, we are ready to meet you where you are. Learning is a continuous journey, and we constantly expand our training programs to keep you ahead of the learning curve, ensuring you have the skills to effectively deploy and operate L3Harris solutions in your daily operations.

We look forward to partnering with you!



Our technical training hub in Lynchburg, Virginia, serves as a collaborative center where our training specialists and development team work closely with sales, implementation, factory to field, and technical support teams. Together, we craft relevant courses enriched with practical scenarios and best practices.

Our technical training staff consists of seasoned professionals with extensive experience in both adult learning and telecommunications. Each instructor is certified, ensuring they possess the instructional skills and technical competencies necessary to deliver high-quality training to our customers.

Our training portfolio is extensive covering a range of topics, from console operation and P25 system maintenance to radio operator training and system configuration and management. Whether it's implementation, maintenance, or troubleshooting, we provide comprehensive training to ensure successful use of your communication system.

Understanding that learning needs vary, we offer flexible training options to meet your specific requirements. At L3Harris, we provide instructor-led virtual courses, hands-on in-person courses, and targeted online courses to ensure you receive the training that best suits your needs.

L3HARRIS UNIVERSITY (L3HTU)

- > Instant access to Learning Portal subscriptions and web-based training packages
- > Effortless on-demand learning content that empowers the learner
- > Ultimate flexibility, providing learners with information precisely when they need it

INSTRUCTOR-LED COURSES

- > **Open Enrollment Courses:** Enroll in our prescheduled, instructor-led sessions
- > **Customized Instructor-Led Training:** Tailored courses that encourage team collaboration and development
- > **Ideal for Continuing Education:** Perfect option for meeting annual training requirements

TRAINING PACKAGES

- > **Comprehensive Training Options:** A mix of virtual, online, and in-person workshops designed to build a solid foundation in your P25 system
- > **Self-Directed and Collaborative Learning:** Encourages self-directed learning, group collaboration, and immersive hands-on practice
- > **Most Flexible Option:** Perfect for onboarding new employees and implementing new systems



INSTRUCTOR-LED TRAINING

Whether you need to upskill your workforce on a specific topic or provide refresher training, our course portfolio offers targeted content for your needs. Our instructor-led courses are taught by certified trainers who aim to engage, challenge, and develop your team. We deliver content in versatile formats—virtual, on-site at your location, or at our state-of-the-art technical training facility—all with one goal in mind: to be your trusted partner in learning.

Our instructor-led courses can be delivered in the following settings based on your preference:

Virtual Training: Participate in regularly scheduled open enrollment courses or customized instructor-led sessions via Microsoft Teams.

On Location: We come to you! Training can be conducted at your facility, with all necessary tools and equipment specified during the planning and scheduling process.

Technical Training Center: Located at 221 Jefferson Ridge Parkway in Lynchburg, Virginia, our facility includes multiple radio systems dedicated to training, well-equipped classrooms, and laboratories to support hands-on learning.

*Note: Some courses require in-person attendance to accommodate hands-on learning, and a select few necessitate joining us at the Technical Training Center in Lynchburg to fully experience our lab offerings.

We are committed to providing flexible and comprehensive training solutions to meet your needs.



COURSES BY ROLE

Our training courses are meticulously designed to cater to specific job types, ensuring that each participant receives the most relevant and practical instruction. Whether you're a technician, administrator, supervisor, or end-user, our courses are tailored to address the unique challenges and responsibilities of your role. By focusing on job-specific scenarios and best practices, we strive to equip every learner with the skills and knowledge needed to excel in their position and effectively utilize our communication systems.

COURSES BY ROLE					
COURSE NAME	COURSE NO.	USER	FOUNDATION	ADMINISTRATION	TECHNICIAN
Console Operator Training	YTSP5P	•			
Radio User Training	YTSP7R	•			
Introduction to Networking	YTSN2X		•		
P25 System Overview	YTSN4F		•		
Regional Network Manager	YTSN4H		•		
Unified Administration System	YTSN4G		•		
P25 System Implementation Workshop	YTSN9N		•		
ISSI Configuration & Administration	YTSN9L			•	
XL Virtual/BeOn System Administration	YTSN2D			•	
Console Configuration	YTSN3H			•	
Over-The-Air Rekeying	MAYT-BSN6C			•	
P25 Fleet Mapping Workshop	MAYT-BSN6A			•	
XL Radio Programming & Operation	MAYT-ASN6X			•	
Grounding & Surge Protection	YTSN5Y				•
MASTR V Station Maintenance	MAYT-ASN8G				•
Network Operation & Maintenance	YTSN3W				•
P25 Master Technician	YTSN9T				•
P25 Programming & Maintenance Workshop	YTST1A				•
P25 Simulcast System Maintenance	MAYT-ASN8H				•
Two47 Site Maintenance	YTSN9G				•
XL Radio Maintenance	YTSP7P				•

COURSES BY DELIVERY METHOD

Our training courses can be conducted through various methods to accommodate different learning preferences and logistical needs. Many of our classes are offered twice per year through open enrollment. For a more immersive experience, we can customize courses to fit your system and budget. This flexible approach ensures that our training solutions are accessible and effective, regardless of your geographical location or scheduling constraints.

COURSES BY DELIVERY METHOD					
COURSE NAME	COURSE NO.	OPEN ENROLLMENT	VIRTUAL	CUSTOMER LOCATION	WEB-BASED
P25 System Overview	YTSN4F	•	•	•	
Unified Administration System	YTSN4G	•	•	•	
Regional Network Manager	YTSN4H	•	•	•	
Network Operation & Maintenance	YTSN3W	•	•	•	
MASTR V Station Maintenance	MAYT-ASN8G	•	•	•	
TWO47 Site Maintenance	YTSN9G	•	•	•	
P25 Simulcast System Maintenance	MAYT-ASN8H	•	•	•	
XL Virtual / BeOn System Administration	YTSN2D	•	•	•	
Introduction to Networking	YTSN2X	•	•	•	
Grounding & Surge Protection	YTSN5Y	•	•	•	
XL Radio Programming & Operation	MAYT-ASN6X	•		•	
P25 System Implementation Workshop	YTSN9N	•		•	
P25 Programming & Maintenance Workshop	YTST1A	•		•	
P25 Master Technician	YTSN9T	•		•	
XL-P & XL-M Radio Maintenance Training	YTSP7P	•		•	
Console Operator Training	YTSP5P		•	•	
Radio User Training	YTSP7R		•	•	
P25 Fleet Mapping Workshop	MAYT-BSN6A			•	
Console Configuration	YTSN3H			•	
Over-The-Air-Rekeying	MAYT-BSN6C			•	
ISSI Configuration & Administration	YTSN9L			•	
P25 System Management Package	YTSN10G				•
P25 System Technician Package	YTSN11G				•
Radio Operation	YTSN12G				•
Symphony Console Simulation	YTSN13G				•
Radio Programming	YTSN14G				•
XL Radio Maintenance Series	YTSN15G				•
P25 System Management Series	YTSN16G				•
P25 System Maintenance Series	YTSN17G				•



OPEN ENROLLEMENT GENERAL INFORMATION

Join us for one of our regularly scheduled open-enrollment instructor-led courses. By planning ahead and scheduling our most requested training courses at intervals throughout the year, we aim to minimize unpredictable budgeting and scheduling conflicts, allowing you to focus on running your business.

These courses offer a unique group learning experience, bringing together attendees from various roles and locations. This collaborative environment fosters a common objective: expanding knowledge and skills.



OPEN ENROLLMENT DETAILS

- > When to enroll: Class registrations are accepted up to two weeks before class begins. However, we advise enrolling as soon as possible as classes fill up fast.
- > Visit our website for the course catalog, enrollment information, and registration forms: [Technical Training for Emergency Responders | L3Harris® Fast. Forward.](#)
- > For questions and inquiries, please contact us at: Email: PSPC_Training@L3Harris.com | Phone: 1-800-368-3277 (option 1)
- > Courses marked with ** have required prerequisites. Detailed information about these prerequisites can be found within each.

OPEN ENROLLMENT: VIRTUAL TRAINING

Technical Requirements:

- > Students must have a device (Laptop, etc.)
- > High-speed internet connection
- > The current platform used is Microsoft Teams, an accessible link is sent after enrollment

Schedule:

- > Open-enrollment virtual classroom courses are conducted daily from 12:30 p.m. to 4:30 p.m. (Eastern Time)

OPEN ENROLLMENT: TECHNICAL TRAINING CENTER

Travel Considerations:

- > Our Technical Training Center is located at 221 Jefferson Ridge Parkway, Lynchburg, VA 24501
- > Travel arrangements are the responsibility of the attendee
- > Airports nearby include Lynchburg Regional Airport (LYH) and Roanoke-Blacksburg Regional Airport (ROA)

Schedule:

- > Classes begin promptly at 8:30 am each day and end at approximately 4:30 pm

SYSTEM ADMINISTRATION & MAINTENANCE VIRTUAL TRAINING

Course	Course Name	Virtual Classroom		Tuition
YTASN5Y-A	Grounding & Surge Protection	Jan. 26-29		\$1,950
YTSN4F-A	P25 System Overview	Feb. 2-6	Jul. 20-23	\$1,950
YTSN4G-A	Unified Administration System**	Feb. 9-10	Jul. 27-28	\$975
YTSN4H-A	Regional Network Manager**	Feb. 11-12	Jul. 29-30	\$975
YTSN2D-A	XL Virtual/BeOn System Administration**	Feb. 16-17	Aug. 3-4	\$975
YTSN2X-A	Introduction to Networking	Mar. 2-5	Aug. 17-20	\$1,950
YTSN3W-A	Network Operation & Maintenance**	Mar. 16-19	Aug. 31 - Sep. 3	\$1,950
MAYT-ASN8G	MASTR V Station Maintenance	Mar. 23-24	Sep. 21-22	\$975
YTSN9G-A	TWO47 Site Maintenance	Mar. 25-27	Sep. 23-25	\$1,450
MAYT-ASN8H	P25 Simulcast System Maintenance**	Mar. 30- Apr. 1	Sep. 28-30	\$1,450

** Prerequisites Required

SYSTEM ADMINISTRATION & MAINTENANCE ON CAMPUS TRAINING

Course	Course Name	Lynchburg, Virginia		Tuition
YTST1A-A	P25 Programming & Maintenance Workshop**	Apr. 20-24	Oct. 5-9	\$3,750
YTSN9N-A	P25 System Implementation Workshop**		Aug. 10-14	\$3,750
YTSN9T-A	P25 Master Technician**	Jun. 1-5	Oct. 19-23	\$4,000
YTSN5Y-C	Grounding & Surge Protection		Sep. 28-29	\$1,250

** Prerequisites Required

RADIO PROGRAMMING & MAINTENANCE ON CAMPUS TRAINING

Course	Course Name	Lynchburg, Virginia		Tuition
YTSP7P-A	XL Radio Maintenance	Apr. 13-15	Sep. 14-16	\$2,100
MAYT-ASN6X	XL Radio Programming & Operation	May 5-6	Oct. 13-14	\$1,250



CUSTOMIZED TRAINING

Customized training is tailored specifically to meet the unique needs and goals of your organization. Our team works closely with you to understand your specific requirements and develop a training program that aligns with your systems, processes, and objectives. This personalized approach ensures that the content is relevant and immediately applicable to your team's daily tasks, improving both efficiency and skillset. Whether delivered on-site at your facility, virtually, or at our state-of-the-art training center, our customized training programs provide flexible and effective learning solutions to empower your workforce.

You are in the driver's seat. Simply choose the courses you are interested in from the catalog. Our team will ensure the content delivered on the topic reflects your L3Harris system and your team will benefit from a collaborative environment as they learn together.



INSTRUCTOR-LED VIRTUAL TRAINING

The virtual classroom environment is perfect for gaining foundational product and system knowledge when hands-on instruction is not necessary. Our instructor-led courses utilize a mix of media, including screen sharing, chat Q&A, video, and system demonstrations.

To maximize learning effectiveness, we recommend limiting each day of virtual classroom instruction to four (4) hours and delivering the training over consecutive days as needed. Typically, courses are scheduled from 12:30 pm to 4:30 pm Eastern Time (EST), but these sessions can be adjusted to mutually agreed time frames to accommodate the customer's time zone and schedule.

INSTRUCTOR-LED ON-SITE TRAINING

Your team learns in their own environment, using the equipment they work with daily. Our instructors are agile and dedicated to addressing the unique learning needs of your team.

The customer is responsible for providing the facility, along with any tools and equipment necessary to support the hands-on portion of the training. Training sessions are scheduled on mutually agreed dates between the customer and the L3Harris Training Manager.

ONLINE ASYNCHRONOUS TRAINING

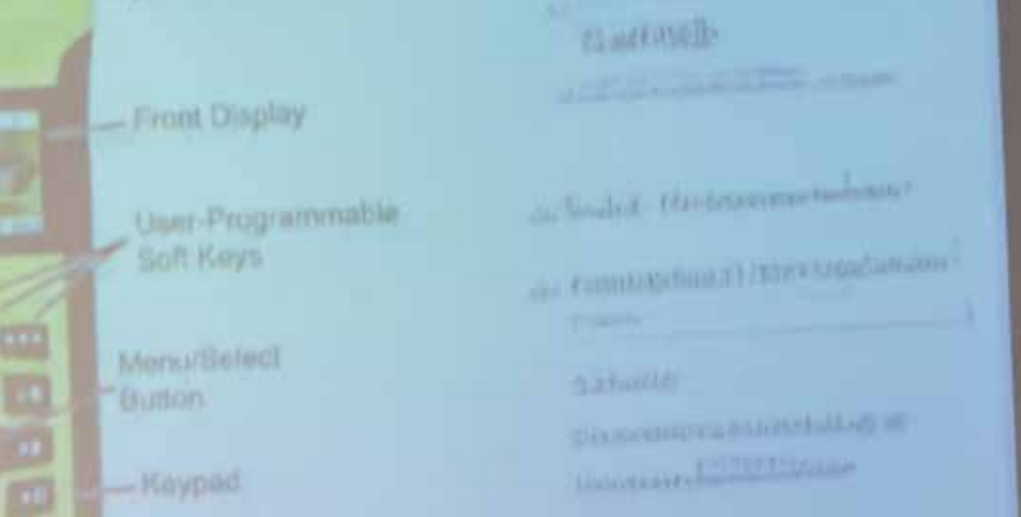
Online asynchronous training is a flexible and self-paced learning approach that allows participants to access and complete coursework at their convenience. This type of training does not require real-time interaction, enabling learners to progress through the material according to their schedules. Custom packages can be tailored to meet your specific training needs.



USER TRAINING

Instructor-led user training with a train-the-trainer approach is designed to provide comprehensive education while empowering internal staff to become effective trainers themselves. In this dual approach, our expert instructors deliver in-depth, hands-on training directly to your team, ensuring they acquire the necessary skills and knowledge to operate and manage systems efficiently.

By combining direct user training with the train-the-trainer model, we help ensure that your organization maintains a high level of competency and can continuously upskill new and existing employees with internal resources.



CONSOLE OPERATION

This course equips dispatchers and their supervisors with the knowledge and skills needed to operate the Symphony Dispatch Console. Participants will learn about the hardware and functionality of the Symphony Dispatch Platform, Symphony terminology and parameters, as well as console navigation and operator functions.

COURSE DETAILS	
Course	YTSP5P-B
Course Length	2.5 Hours
Delivery Option	Customer Location / Virtual Classroom
Logistics	The customer's operational consoles are utilized during this training.
Recommendations	To ensure an optimal learning experience, this training is conducted in small groups, with no more than two people per operating console.
Level	Entry Level

OBJECTIVES

- > Explain the basic operational features of a Symphony console
- > Trace the call flow through the Symphony console
- > Describe how the console interfaces with a P25 network

RADIO USER TRAINING

This course provides field personnel on the operation of the portable and mobile radios in the system.

COURSE DETAILS	
Course	YTSP7R-B
Course Length	2 - 4 Hours
Delivery Option	Customer Location
Logistics	<p>Train the User: Our instructors direct training to field personnel on the operation of the portable and mobile radios in the system.</p> <p>Train the Trainer: Our instructors conduct training for designated customer trainers, who then instruct the rest of the radio users.</p>
Level	Entry Level

OBJECTIVES

- > A comparison of conventional and trunked operation and analog and digital voice (as applicable)
- > An overview of the customer's radio system and coverage expectations
- > A description of system operation, including failure modes
- > Hands-on practice with the radios including proper radio use
- > A discussion of primary radio care and battery maintenance



FOUNDATION TRAINING

The courses in this category are essential for building a solid understanding of your P25 System. They serve as prerequisites for many intermediate and advanced courses in administration and maintenance.

These foundational courses are designed for administrators, managers, technicians, and key personnel responsible for the configuration, implementation, operation, and maintenance of a P25 System.



P25 SYSTEM OVERVIEW

This course equips system administrators and managers with a comprehensive understanding of the terminology, equipment, components, and operational processes associated with the P25 system. Key topics include RF communication basics, VIDA® network and site equipment, call processing, wide-area coverage solutions, interoperability, and more. This course lays the foundational knowledge required for advanced system management application training on the Unified Administration System and Regional Network Manager.

COURSE DETAILS	
Course	YTSN4F
Course Length	Four 4-Hour Sessions/Two 8-hour Days
Delivery Options	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	N/A
Level	Entry Level

OBJECTIVES

- > Define basic radio communication concepts
- > Define P25 communication concepts

UNIFIED ADMINISTRATION SYSTEM (UAS)

This course equips system administrators and managers with the skills needed to create and maintain databases using the Unified Administration System (UAS). The course covers various topics, including logging into the UAS, setting up user accounts, navigating the user interface, modifying parameter values, and managing radio users and talk groups by adding or deleting them.

COURSE DETAILS	
Course	YTSN4G
Course Length	Two 4-Hour Sessions / Two 8-hour Days
Delivery Options	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F)
Level	Intermediate Level

OBJECTIVES

- > Describe the hardware and software components of the UAS
- > Create and manage P25 Trunked system elements and users
- > Identify the different types of administrators and their access levels within the UAS



REGIONAL NETWORK MANAGER (RNM)

This course equips system administrators and managers with the skills to monitor and manage the P25 system using the RNM. The course covers topics such as accessing the system, monitoring the status of system equipment, identifying and acknowledging system faults, viewing historical system performance, exploring real-time viewers, and running reports using Activity Warehouse.

COURSE DETAILS	
Course	YTSN4H
Course Length	Two 4-Hour Sessions / 1.5 8-Hour Days
Delivery Options	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F)
Level	Intermediate Level

OBJECTIVES

- > Explain the function and operation of the hardware
- > Navigating the RNM and monitoring system performance
- > Generating reports using Activity Warehouse

INTRODUCTION TO NETWORKING

This course focuses on basic network objectives and is perfect for administrators, technicians, and anyone needing a comprehensive understanding of the fundamental principles of configuring, operating, and troubleshooting basic network infrastructure. It is highly recommended as a prerequisite for individuals who have not had formal network training and plan to attend the Network Operation & Maintenance (3W) course

COURSE DETAILS	
Course	YTSN2X
Course Length	Four 4-hour Sessions / Two 8-Hour days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	N/A
Level	Entry Level

OBJECTIVES

- > Network Media and Devices
- > IP Addressing and Routing
- > Networking Applications
- > Network Security
- > Network Management, Monitoring, and Troubleshooting



P25 SYSTEM IMPLEMENTATION WORKSHOP

This hands-on workshop enables participants to apply the knowledge gained from previous virtual classroom and web-based training sessions. The workshop features structured exercises on the Unified Administration System (UAS), Regional Network Manager (RNM), and radio programming. Participants are grouped into teams to plan, implement, and operate the Training Center's P25 radio system according to the communication needs of a hypothetical town. Activities include defining a fleet map, planning radio personalities, setting up UAS databases, configuring dispatch consoles, programming radios, and operating the system.

COURSE DETAILS	
Course	YTSN9N
Course Length	4.5 Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F) / Unified Administration System (YTSN4G) / Regional Network Manager (YTSN4H)
Level	Intermediate Level

OBJECTIVES

- > Understand and apply P25 Fleet Mapping concepts, including defining role assignments, creating talk groups, establishing user privilege classes, planning and programming radio personalities
- > Gain hands-on experience with the UAS and RNM, including accessing these systems locally and remotely, creating user accounts, setting up a P25 Trunked system, and monitoring system status and performance



SYSTEM ADMINISTRATION TRAINING

P25 system administrators play a vital role in ensuring that the P25 radio communication system is reliable, secure, and operating at peak efficiency, which is essential for the success of public safety and emergency response operations.

Some of those responsibilities include:

- > System configuration and management
- > Monitoring system performance and troubleshooting
- > User and database management
- > Technical support and training
- > System upgrades and maintenance
- > Security and compliance

In addition to the Core P25 training offerings, the following courses allow system administrators and managers to explore specific features and services in depth and learn how to manage them effectively within your system.

CONSOLE CONFIGURATION

This course equips personnel involved in the implementation, maintenance, and ongoing management of the P25 Trunked System Dispatching Operations with the skills required to configure and manage the dispatch console. Key tasks include making necessary changes and corrections to existing console configuration parameters, adding or removing dispatch consoles, adjusting the rights and privileges of dispatch console administrators and operators, and maintaining records of all programmed parameters. The training utilizes the customer's operational consoles and is conducted in small groups with no more than two people per operating console.

COURSE DETAILS	
Course	YTSN3H-B
Course Length	1.5 Days
Delivery Option	Customer Location
Logistics	This training uses the customer's equipment, which must be operational and connected to the network.
Level	Intermediate Level

OBJECTIVES

- > Configure, customize, and operate the Symphony Dispatch Console, including setting up the Symphony screens and performing basic troubleshooting
- > Define and explain key concepts and parameters related to the SDC, such as RF communications basics, Symphony-specific terminology, and network configuration parameters

OVER-THE-AIR REKEYING (OTAR)

This on-site course equips system administrators and managers with the knowledge and skills to manage encryption keys using the Key Management Facility (KMF) product within a P25 network. It covers defining Crypto Officer Administration classes and user privileges, managing Crypto Officer user accounts, configuring crypto nets, and rekeying talk groups, users, and system keys through the Unified Administration System (UAS). If the customer wishes to utilize the Link Layer Authentication feature, this content can be integrated into the Over-The-Air-Rekeying course.

COURSE DETAILS	
Course	MAYT-BSN6C
Course Length	1 Day
Delivery Option	Customer Location
Prerequisites	P25 System Overview (YTSN4F) / Unified Administration System (YTSN4G)
Level	Intermediate Level

OBJECTIVES

- > Understand and describe the relationship between P-25 Talkgroups, Users, and Cryptonets
- > Identify and manage the responsibilities of personnel associated with storing and changing encryption keys
- > Creating CryptoNets, assigning users to CryptoNets, and rekeying and changing over CryptoNets

P25 FLEET MAPPING WORKSHOP

This on-site workshop is designed to help new customers define their Fleet Map, which is essential for planning radio personalities and configuring consoles. The workshop begins with a brief overview of the P25 system and focuses on system design and operation, enabling participants to make informed decisions about their Fleet Map structure. It will explore the benefits of different talk group structures and the configuration parameters related to talk groups and their respective radio users. Additionally, the workshop will cover planning for both inter-operability and intra-operability scenarios.

COURSE DETAILS	
Course	MAYT-BSN6A
Course Length	3-4 Days
Delivery Option	Customer Location
Prerequisites	P25 System Overview (YTSN4F)
Level	Entry Level

OBJECTIVES

- > Determine the talk groups required by each agency and plan the Group ID ranges per agency
- > Define each talk group's operating parameters, including coverage, priority, and property classes, based on organizational hierarchy
- > Assign Subscriber Unit ID (SUID) ranges and determine any SUIDs that will require aliases, if applicable
- > Plan the overall radio programming and console configuration, ensuring that talk groups are accessible and effectively used by radios and consoles

XL VIRTUAL/BEON SYSTEM ADMINISTRATION

This course is intended for personnel involved in the implementation, maintenance, and ongoing management of the XL Virtual / BeOn System. It aims to provide both technical and non-technical staff with a comprehensive understanding of the BeOn core system and the skills needed to manage user licenses. Course topics include system architecture, licensed features, basic system configuration, communication interfaces, system features, provisioning, voice communication capabilities, and network management and monitoring tools.

COURSE DETAILS	
Course	YTSN2D
Course Length	Two 4-Hour Sessions / One Day
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	Unified Administration System (YTSN4G)
Level	Intermediate Level

OBJECTIVES

- > Determine the talk groups required by each agency and plan the Group ID ranges per agency
- > Define each talk group's operating parameters, including coverage, priority, and property classes, based on organizational hierarchy
- > Assign Subscriber Unit ID (SUID) ranges and determine any SUIDs that will require aliases, if applicable
- > Plan the overall radio programming and console configuration, ensuring that talk groups are accessible and effectively used by radios and consoles



INTER-RF SUBSYSTEM INTERFACE (ISSI)

This course equips system administrators and managers with the skills and knowledge needed to configure and deploy the Inter-RF Subsystem Interface (ISSI) using the Unified Administration System (UAS). Key topics include setting up the UAS for both local and foreign ISSI gateways, creating ISSI Regions, assigning System Assigned ID (SAID) ranges for foreign users and talk groups, identifying shared users and talk groups accessible to foreign systems, and developing permission templates for foreign users.

COURSE DETAILS	
Course	YTSN9L
Course Length	1 Day
Delivery Option	Customer Location
Prerequisites	P25 System Overview (YTSN4F) / Unified Administration System (YTSN4G)
Level	Intermediate Level

OBJECTIVES

- > Gain a solid understanding of P25 ISSI standards, system terminology, gateway capabilities, and interoperability requirements
- > Demonstrate the ability to configure and manage ISSI using the Unified Administration System (UAS)
- > Apply network design and interconnection concepts for cross-system communication



SYSTEM TECHNICIAN TRAINING

The P25 System Technician plays a crucial role in supporting the deployment and ongoing performance of a P25 radio system. This role typically requires technical expertise and hands-on experience with radio technology, network infrastructure, and communication protocols to ensure seamless system operation.

Some of those responsibilities include:

- > Installation and setup
- > System troubleshooting
- > Radio programming and maintenance
- > Technical support and training
- > Preventative and corrective maintenance
- > Security and compliance

In addition to the Core P25 training offerings, the following courses allow system technicians to explore specific features and services in depth and learn how to manage them effectively within your system.

GROUNDING & SURGE PROTECTION

This course provides an overview of the fundamental L3Harris guidelines for grounding and surge suppression. It is intended for system and site owners, systems engineers and technicians, radio site installers, and maintenance personnel.

Topics covered include:

- > Basics of lightning
- > Site design to minimize susceptibility to lightning damage
- > Grounding techniques and best practices
- > Soil resistivity and ground system testing

COURSE DETAILS	
Course	YTSN5Y
Course Length	Two 4-Hour Sessions / Two Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	N/A
Level	Intermediate Level

OBJECTIVES

- > Comprehend lightning basics and effective site design
- > Master grounding and surge suppression techniques
- > Conduct ground system testing and maintenance

MASTR V STATION MAINTENANCE

This course introduces system technicians to the MASTR V station. It covers station operation and configuration, system analysis, troubleshooting, and testing of the MASTR V base station. Students will gain the knowledge needed to perform software upgrades and localize problems to a field replaceable unit.

COURSE DETAILS	
Course	MAYT-ASN8G
Course Length	Two 4-Hour Sessions / Two Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F)
Level	Intermediate Level

OBJECTIVES

- > Understand MASTR V base station architecture and components
- > Configure and program the MASTR V base station
- > Perform testing and maintenance of the MASTR V base station

TWO47 SITE MAINTENANCE

This course is intended for system technicians and offers an introduction to the TWO47 Base Station. The curriculum covers site operation and configuration, system architecture, software overview, network configuration, and troubleshooting methods for a TWO47 site. Upon completion, participants will be equipped with the skills needed to perform software upgrades, diagnose issues, and identify field-replaceable equipment.

COURSE DETAILS	
Course	YTSN9G-A
Course Length	Three 4-Hour Sessions / 1.5 Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F)
Level	Intermediate Level

OBJECTIVES

- > Understand the architecture, component layout, and power configuration of the TWO47 Base Station
- > Configure the TWO47 Base Station, including IP addressing, device management, and documentation of essential information
- > Perform troubleshooting and maintenance tasks for the TWO47 site, including station replacement, site testing, and preventative maintenance

P25 SYSTEM SIMULCAST MAINTENANCE

This course equips technicians with the skills to operate, maintain, and troubleshoot a P25 simulcast system. Participants will explore system functionality and key concepts such as capture and non-capture zones, delay spread, signal flow, GPS timing synchronization and alignment, and distributed control point architecture and configuration. The training also covers bypass operations, as well as diagnosing and replacing failed components.

COURSE DETAILS	
Course	MAYT-ASN8H
Course Length	Three 4-Hour Sessions / 1.5 Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F) / MASTR V Station Maintenance (MAYT-ASN8H)
Level	Intermediate Level

OBJECTIVES

- > Understand and describe the basic operation, terminology, and simulcast-specific concepts of a P25 Simulcast System, including non-capture, delay spread, and GPS timing synchronization
- > Identify and trace the configuration and signal flow within simulcast equipment, including the digital call process and timing synchronization through simulcast components
- > Perform maintenance and troubleshooting tasks, such as verifying delay alignment between transmit sites, defining customer alarms, isolating system alarm conditions, and replacing defective simulcast components

“GREAT CLASS, VERY INFORMATIVE AND WELL PACED. A LOT OF INFORMATION BUT DIDN'T FEEL OVERWHELMING”

Customer Quote

NETWORK OPERATION & MAINTENANCE

This course introduces maintenance technicians to fundamental networking concepts, enabling them to maintain the VIDA Core and virtual machine infrastructure. Topics include VIDA IP addressing and DNS schemes, essential database backup and storage, router and switch configuration backup and recovery, HAS/VAS configuration, SUMS updates and Network Switching Center failover operations.

Introduction to Networking (YTSN2X) course is a highly recommended prerequisite for individuals who have never had formal network training.

COURSE DETAILS	
Course	YTSN3W
Course Length	Four 4-Hour Sessions / Two Days
Delivery Option	Open Enrollment / Virtual Classroom / Customer Location
Prerequisites	P25 System Overview (YTSN4F) / Unified Administration System (YTSN4G) / Regional Network Manager (YTSN4H)
Level	Intermediate Level

OBJECTIVES

- > Understand the function and configuration of the Network Switching Center (NSC) and RF site equipment, including high-availability options and network information assurance components
- > Manage and navigate the virtual infrastructure using VMware's vSphere software suite, perform virtual machine power management tasks, and handle failover and recovery operations. Administer Cisco devices within the VIDA network, including accessing, configuring, backing up, and restoring device configurations and operating systems

PROGRAMMING & MAINTENANCE WORKSHOP

This hands-on course provides technicians with an opportunity to put into practice the knowledge developed during prerequisite virtual classroom training on network and site equipment. Hands-on exercises include using the Unified Administration System, programming radios, using the Regional Network Manager, configuring equipment with VIDA Device Manager, back up and restoring Cisco device configurations, deploying SUMS patches, backing up and restoring databases, and performing a VIDA network health check.

COURSE DETAILS	
Course	YTST1A
Course Length	5 Days
Delivery Option	Open Enrollment
Prerequisites	MASTR V Station Maint. (MAYT-ASN8G) / Unified Administration System (YTSN4G) / Regional Network Manager (YTSN4H) / Network Operation & Maintenance (YTSN3W)
Level	Intermediate Level

OBJECTIVES

- > Learn how to program radios using Radio Personality Manager2
- > Set up, modules for network connection and perform code upgrades to the baseband and traffic controller modules
- > Understand the functions of the Regional and Enterprise Network Manager system components including monitoring system performance, managing device personalities, and executing administrative tasks through various applications

XL RADIO PROGRAMMING & OPERATION

This course offers detailed training on programming and operating XL radios for system administrators, technicians, and anyone who needs to create a radio personality for operational purposes. While the primary focus is on the XL-200P radio during sessions at the L3Harris Technical Training Center, it is useful for anyone needing to learn radio programming using the Radio Personality Manager 2 (RPM 2) application.

For on-site training, the course can be customized to the specific radio models used by the customer, utilizing their equipment and software. It is recommended that each pair of participants have access to one computer with the necessary software for optimal learning.

Students attending the L3Harris open enrollment course will also receive 30 days of unlimited access to the Radio Programming web-based package YTSN14G-A.

COURSE DETAILS	
Course	MAYT-ASN6X
Course Length	Two Days
Delivery Option	Open Enrollment / Customer Location
Prerequisites	Basic Radio User Experience
Level	Entry Level

OBJECTIVES

- > Learn to create a master radio personality using the RPM 2 application, including setting up frequency and group sets to build systems/zones, and selecting various radio options
- > Understand the operational impact of different radio options and learn how to modify existing radio personalities effectively
- > Gain skills in manually generating and loading encryption keys using the Key Manager application

XL RADIO MAINTENANCE

This hands-on course equips technicians with the knowledge and skills to program, test, and maintain the XL portable and mobile series radios.

Students attending the L3Harris open enrollment course will also receive 30 days of unlimited access to the XL Portable and Mobile Maintenance Series Course YTSN15G-A.

COURSE DETAILS	
Course	YTSP7P
Course Length	3 Days
Delivery Option	Open Enrollment / Customer Location
Prerequisites	Basic Radio User Experience
Level	Intermediate Level

OBJECTIVES

- > Install a maintenance personality into the radio for standardized testing and upgrade the radio's software
- > Radio assembly and disassembly
- > Set up and conduct standard transmitter and receiver tests using a P25-capable service monitor
- > Perform automatic test and alignment using the Cobham (Aeroflex) 3920B service monitor and Auto Test software

P25 MASTER TECHNICIAN

This immersive, hands-on course is designed for experienced P25 system technicians and focuses on advanced system topics and troubleshooting strategies. Participants will be challenged with real-world test scenarios involving RF sites, the VIDA network, the VIDA core, and end-user equipment, where they must diagnose and resolve issues. Instructors will closely evaluate each individual's performance to assess their mastery of the P25 system. Those who demonstrate the required expertise and skills may earn the designation of Master Technician.

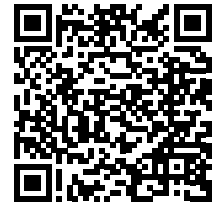
PROGRAM REQUIREMENTS:

- > Successful completion of all mandatory prerequisites
- > Submission of a formal application

Additional Information:

To enroll in the P25 Master Technician (YTSN9T) course, you must submit both a completed Training Registration Form and a Master Technician Application, which is available on our website:

<https://www.l3harris.com/all-capabilities/technical-training-emergency-responders>



The application serves two key purposes:

It allows instructors to confirm that applicants meet the course prerequisites, as the program is intended for experienced P25 technicians.

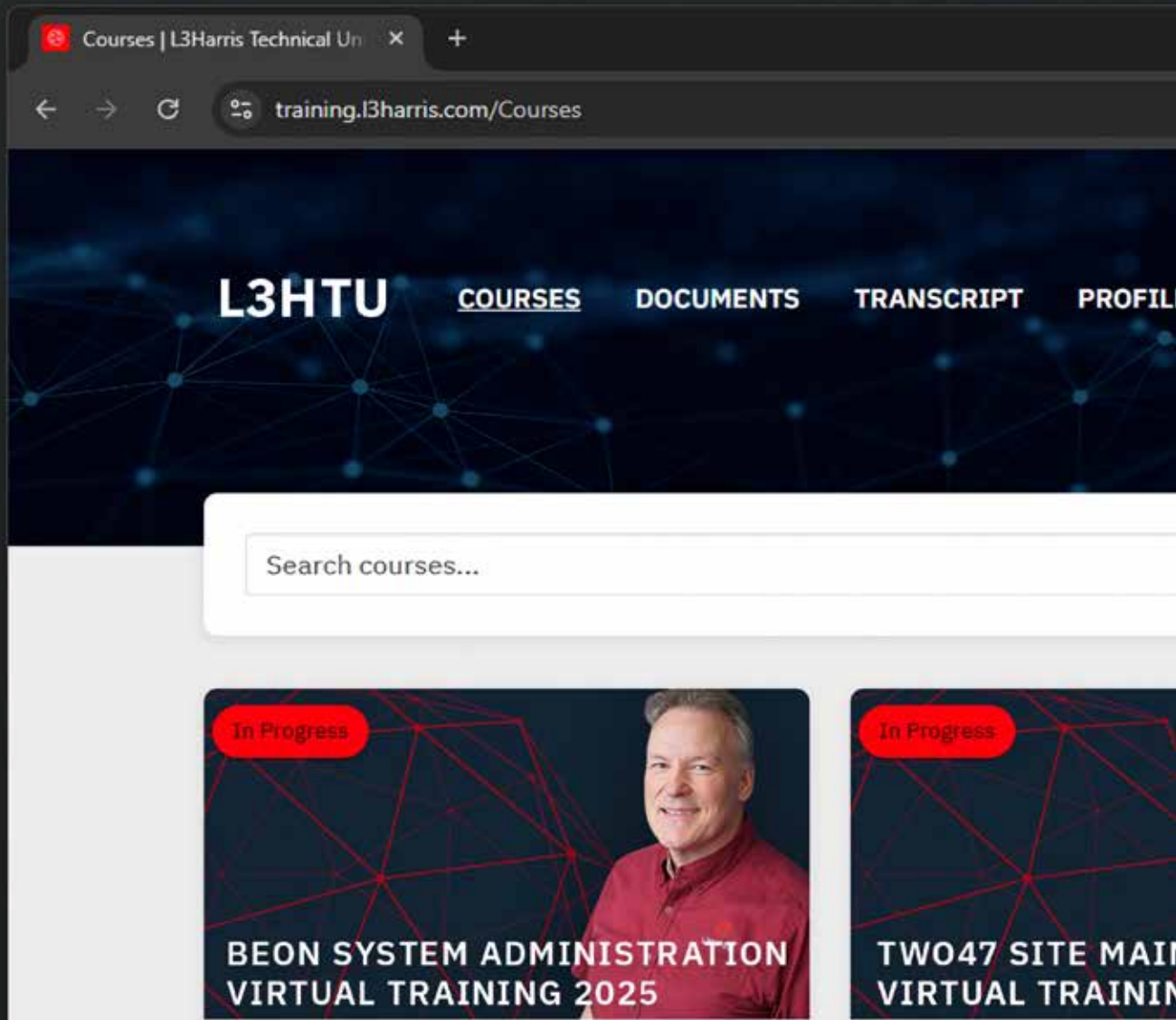
It provides system-specific information that will be incorporated into the training experience.

Both the application and the registration form should be submitted to the Training Manager for processing.

COURSE DETAILS	
Course	YTSN9T
Course Length	4.5 Days
Delivery Option	Open Enrollment / Customer Location
Prerequisites	P25 System Overview (YTSN4F) / Regional Network Manager (YTSN4H) / Unified Administration System (YTSN4G) / Radio programming (MAYT-ASN6X) / Network Operation & Maintenance (YTSN3W) / MASTR V Station Maintenance (YTSN8G) / P25 Programming & Maintenance (YTST1A)
Level	Advanced Level

OBJECTIVES

- > Demonstrate an understanding of P25 trunked system architecture and functionality
- > Interpret and analyze P25 system architecture and signal flow
- > Demonstrate logical, bottom-up approaches to network and system troubleshooting using diagnostic tools to isolate issues
- > Develop and implement a preventive maintenance plan
- > Troubleshoot and diagnose user equipment



L3HTU LEARNING MANAGEMENT SYSTEM

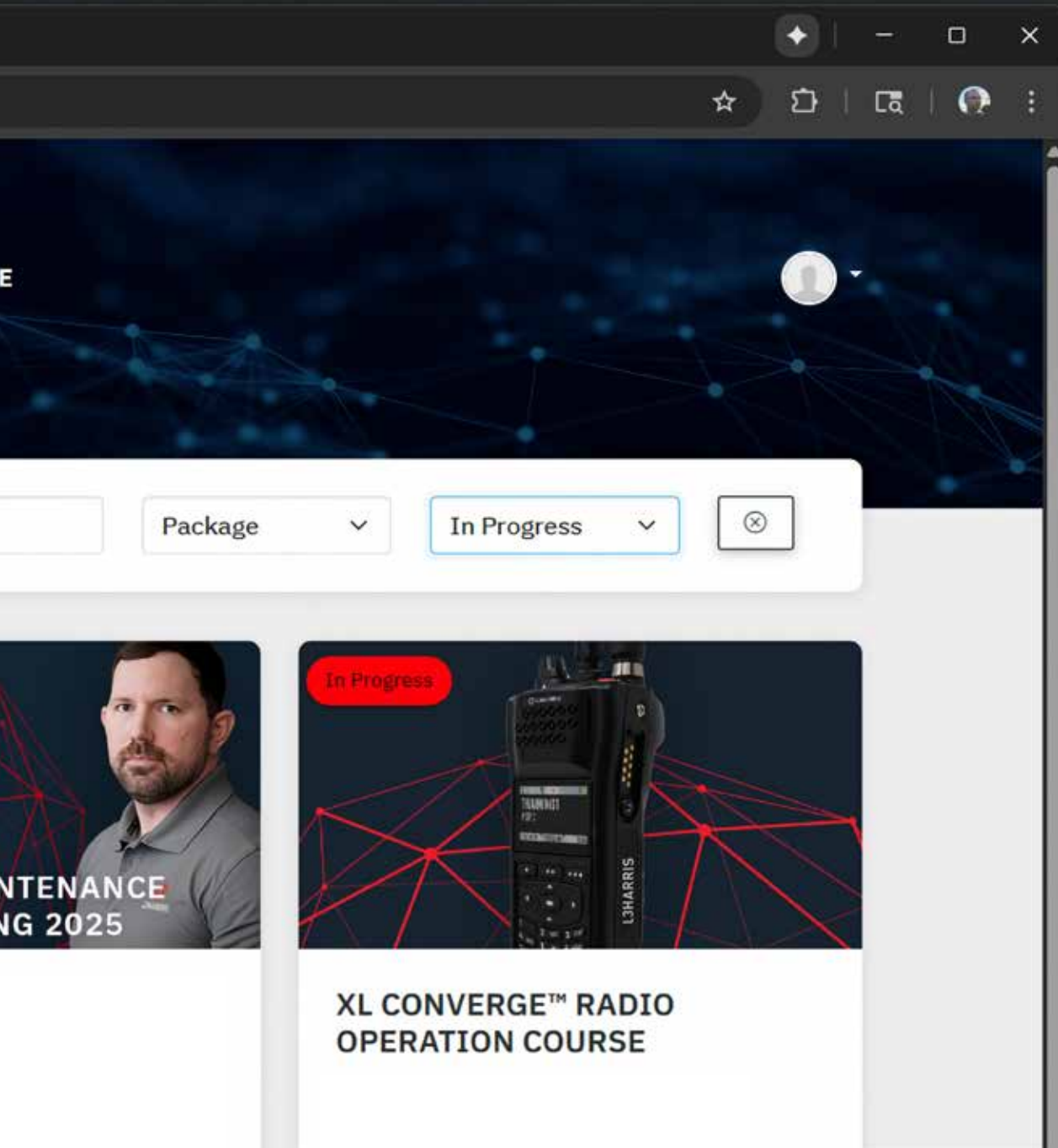
ON-DEMAND ACCESS TO LEARNING CONTENT DESIGNED TO PUT THE LEARNER IN THE DRIVER'S SEAT

A critical component to the success of your communications system is confident users. HTU provides access to self-paced eLearning courses which were thoughtfully created help a student master basic concepts inherit in L3Harris systems.

Modular content supports learning specific information in timely chunks, and interactive content increases engagement. The courses, short videos, and product demonstrations offer supplemental training to optimize learning and provide an on-the-job training aid.

L3Harris can provide you with the ability to administrate your teams' learning on your own terms. Our advanced licensing features give you granular access over who has access to different training modules. We make onboarding simple with bulk uploading and self-registration tools so that your learners can access their training without jumping through a bunch of hoops.

Our reporting tools in the Learning Management System (LMS) allows you to see the personnel that have completed training and how long students are spending viewing the training. Our (LMS) also tracks in-person instruction that has been completed and view upcoming enrollments, so you will always know who has received training on L3Harris products.



Whether you are ready to enroll, or if we can help answer additional questions you have regarding L3Harris Technical University such as but not limited to:

- > Web Based Training Bundles
- > Bulk Pricing
- > Access and use of the Learning Management System

CONTACT THE TRAINING MANAGER AT:

Email: PSPC_Training@L3Harris.com | Phone: 1-800-368-3277 (option 1)





L3HTU WEB-BASED TRAINING PACKAGES

Learning portal packages are created with your workforce in mind. Topics have been carefully chosen based on the concepts, systems, and tools required for the various roles that support your P25 System.

And our portfolio is continuously growing!

Each learning package includes unlimited access to the training modules for one year. Modules are added to the training package as developed at no extra cost with an active account.



P25 SYSTEM MANAGEMENT PACKAGE YTSN10G-A | \$1500

P25 system administrators and managers are responsible for defining and maintaining the system's configurable parameters. All of these courses are in the Bundled P25 System Management Technician Training Program. This package can be renewed for \$1000.

COURSES INCLUDE

- > P25 Fleet Mapping Overview
- > XL-200P Radio Operation
- > Symphony Console Operation
- > Radio Programming Overview
- > Radio Personality Manager 2
- > Advanced Access Control (AAC)
- > Unified Administration System (UAS) Overview
- > UAS "How to...."
- > Regional Network Manager (RNM) Overview
- > Active Directory Overview
- > Activity Warehouse
- > Enterprise Network Manager (ENM) Overview
- > Over-The-Air Programming (OTAP)
- > Over-The-Air Rekeying (OTAR) Fundamentals
- > OTAR "How to...."
- > Inter-RF Subsystem Interface (ISSI) Fundamentals



P25 SYSTEM MAINTENANCE PACKAGE YTSN11G-A | \$2000

A P25 system technician must be familiar with all system operation and maintenance aspects. This includes both site equipment and the VIDA IP network. System maintenance training provides technicians with the knowledge and skills to conduct preventive maintenance, troubleshoot problems, and take corrective action. This package can be renewed for \$1500. **This package includes all of the courses from the P25 System Maintenance Package YTSN10G-A PLUS the additional courses listed below.**

COURSES INCLUDE

- > MASTR V Station TC Field Replacement Procedure
- > MASTR V Station BBM Field Replacement Procedure
- > P25 Miniature Mobility Exchange (MME)
- > P25 Network Sentry
- > P25 Symphony Installation and Configuration
- > P25 Device Manager Introduction
- > UAC Interoperability Gateway Overview
- > VIDA Network Navigation
- > Introduction to VMware and the vCenter Console Server (VCC)
- > Security Update Management Service (SUMS) Overview
- > Cisco Configuration – Backup and Restore



RADIO OPERATION PACKAGE

YTSN12G-A | \$60

The Radio Operation package includes access to all operational radio courses. This package is beneficial to end users who operate and require training on portable and mobile radios.

Training a large group?

Contact the Training Manager

Email: PSPC_Training@L3Harris.com | Phone: 1-800-368-3277 (option 1)

COURSES INCLUDE

- > Radio User Fundamentals
- > XG-25P System Model Operation Course
- > XG-75P Scan Model Operation Course
- > XG-75P System Model Operation Course
- > CH721 Scan Model Radio Operation Course
- > XL-200M Radio Operation Course
- > XL-200P Radio Operation Course
- > CH721 System Model Radio Operation Course
- > XL Virtual for Android Operation Course
- > BeOn for IOS Operation Course

SITE

DE

North Patrol TX 

 **Select** SPK 1 

North Fire

South Fire

East Fire

West Fire

Fire Chatter


Tac 1


Chief Burns


Command U


Red Mtn

Red Mtn 1

South Patrol TX 

East Patrol TX 

West Patrol TX 

PD Chatter TX 

Chief Jones 









SYMPHONY CONSOLE SIMULATION YTSN13G-A | \$180

This course is designed for dispatchers and individuals that use or operate the Symphony Dispatch Console. This interactive course allows participants to watch and learn about the Symphony Dispatch Console. It covers basic daily operations and provides an in-depth review of licensed console features. Key tasks demonstrated in the course include making and receiving group and individual calls, responding to emergency calls, creating patches and simulelects, and more.

Training a large group?

Contact the Training Manager

Email: PSPC_Training@L3Harris.com | Phone: 1-800-368-3277 (option 1)



RADIO PROGRAMMING PACKAGE

YTSN14G-A | \$200

Learn the basics of radio programming, including, hardware and software requirements, building personalities, required licensing options and compliance.

COURSES INCLUDE

- > Radio Programming Overview
- > Radio Personality Manager (RPM and RPM 2)
- > Advanced Access Control (AAC)


**”CLASS WAS GREAT.
LOOKING FORWARD TO TAKING
THIS KNOWLEDGE HOME AND
PUTTING IT TO USE!”**

XL RADIO MAINTENANCE SERIES YTSN15G-A | \$500

This course is designed for personnel who will be involved in the maintenance of the XL Radios and the continuing management of maintenance operations.

COURSES INCLUDE

- > Mobile Radio Operation
- > Mobile Radio Teardown and Reassembly
- > Portable Radio Operation
- > Portable Radio Teardown



“VERY INFORMATIVE, GOOD USE OF TIME, AND EVEN HELPED DEAL WITH SOME SPECIFIC PROBLEMS I HAD.”

P25 SYSTEM MAINTENANCE VIRTUAL SERIES YTSN16G-A | \$3500

Students receive one year of unlimited access to a library of recorded and edited virtual training sessions, along with all supporting documentation. The sessions are organized by day and range from two to five hours each. Hosted by L3Harris Technical University, the Virtual Series require a valid email address for enrollment.

The full program tuition is \$3,500, offering a savings of \$1,375 compared to purchasing sessions individually. This pricing cannot be combined with other discounts and is not applicable retroactively.

COURSES INCLUDE

- > P25 System Overview (YTSN4F-A)
- > Unified Administration System (YTSN4G-A)
- > Regional Network Manager (YTSN4H-A)
- > BeOn System Administration (YTSN2D-A)



P25 SYSTEM MAINTENANCE VIRTUAL SERIES YTSN17G-A | \$9500

Students receive unlimited access for one year to a collection of previously recorded and edited virtual training sessions, along with all supporting materials. The sessions are organized by day and range from two to five hours in duration. The Virtual Series is hosted by L3Harris Technical University and requires a valid email address for enrollment.

The tuition for the full series is \$9,500, providing a savings of \$4,125 compared to purchasing sessions individually. This pricing cannot be combined with other discounts and is not applicable retroactively.

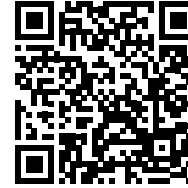
COURSES INCLUDE

- > P25 System Overview (YTSN4F-A)
- > Unified Administration System (YTSN4G-A)
- > Regional Network Manager (YTSN4H-A)
- > Network Operation & Maintenance (YTSN3W-A)
- > MASTR V Station Maintenance (MAYT-ASN8G)
- > TWO47 Site Maintenance (YTSN9G-A)
- > P25 Simulcast System Maintenance (MAYT-ASN8H)

POLICIES AND REQUIREMENTS

Below is an outline of L3Harris training policies.

Additional Terms and Conditions can be found here:



International Customers

All international customers and foreign national customers should contact their sales representative for a quotation and information regarding our prescreening process before enrolling in any standard open-enrollment course or for any on-site training.

Attendance and Participation

- > Students must maintain full attendance to be eligible for a certificate of completion. If you anticipate being absent for any portion of the class, please inform the instructor in advance so that we can explore possible make-up options for you.
- > Active participation in all class activities and labs is mandatory to receive completion credit.
- > We understand that interruptions can occur, and you may need to take a call or respond to a text. We kindly ask that you step outside the class to avoid disturbing others.

CANCELLATION AND RESCHEDULING

Student Cancellation Policy

- > The Training Manager must receive a cancellation notice at least 10 working days before the class starts if you cannot attend.
- > A cancellation fee will be charged if a student fails to cancel their registration in this time frame or does not attend the course.
- > Substitutions may be made if someone else can attend in their place. This must be coordinated through the Training Manager. Substitutes must meet applicable course prerequisites.
- > The cancellation fee will be the standard fee for the course.
- > Cancellations are accepted via phone or email and must be received by cancellation deadline.
- > Travel reservations made by the student or on behalf of the student are not refundable by L3Harris. Regardless of who initiates the cancellation. This includes airfare, hotel, transportation costs and all cancellation fees.

L3Harris Cancellation Policy

- > We reserve the right to cancel any course due to low enrollment or other circumstances which would make the event nonviable up to 10 days prior to start of class.
- > If canceled on behalf of L3Harris, students will not be charged for the course.
- > Registrants will be notified at the time of change or cancellation with regards to the cancellation process
- > The Training Center reserves the right to change the schedule and training location. If such changes are necessary, notification via e-mail or telephone will be made to the student or person making the reservation as soon as possible, within 10 days before the scheduled start of a course.

Disclaimer

L3Harris reserves the right to change the structure and content of all courses at any time. Programs and all content are protected by copyright, trademark, and other intellectual property.



FAST. FORWARD.

PSPC Training Catalog

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