



PRODUCT AND SYSTEM TECHNICAL TRAINING COURSE CATALOG

MOTOROLA SOLUTIONS - WORLDWIDE EDUCATION



WELCOME

Day in, and day out, governments and businesses around the world rely on effortless and reliable communication. Our customers call it their lifeline. To help businesses operate without interruption and to safeguard communities, workplaces, and ultimately, each one of us, we are determined to help keep the lifeline unbreakable.

With Motorola Solutions, Inc. Education Services, we help your two biggest lifeline investments - your personnel and your technology infrastructure - work together efficiently to maximize the value of your communication technologies.

Whether your organization is new to our latest innovations or has years of experience with us, our Education Services team helps expand your personnel's skills and knowledge for the full application of your technology investment.

Starting with professionally developed, real-world application and content, we always design your training with the learner in mind. Our experienced instructors average 20+ years in the communications industry and specialize in Motorola Solutions technologies and services. Immersive, hands-on experiences, expert lab environments, or online learning ensure we meet your learners with the right kind of learning at the right times.

Whether training is delivered virtually, at your location or in our facilities, we can help ensure that your personnel know how to amplify your investment, maximize operational efficiency, and ensure an unbreakable lifeline.

We look forward to working with you.



MOTOROLA
SOLUTIONS



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EDUCATION SERVICES

WorldWide Education teams up with you in the successful implementation, maintenance, and use of your communication system. We blend our passion for learning and innovation to deliver comprehensive training strategies, targeted to ensure **technicians, administrators, supervisors, and operators** find in us a trusted and effective learning partner.

Our range of services is designed to ensure you find the right learning support your organization's unique characteristics demand. From **Education Packages**, offering a selection of essential training activities, to **Learning Subscriptions** with unlimited access to technology-specific content, or the most personalized service: a **Training Need Analysis** service followed by a tailored training plan, specifically designed to meet the results you want to achieve.

Our services not only respond to businesses and organizations' needs, but also to limitations uncertain times may bring. Our learning technology allows us to provide **remote instructor-led training**, so your personnel can attend our sessions from anywhere in the region.

Browse this Catalog to learn more about each of these services and their benefits, and also discover a selection of our extensive training portfolio. If you have any questions, contact your Motorola Solutions representative.



GENERAL INFORMATION

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com

QUALITY ASSURANCE: THE TPMA FRAMEWORK

MOTOROLA SOLUTIONS WORLDWIDE EDUCATION COMMITS TO EXCELLENCE IN INSTRUCTOR-LED TRAINING

For 45+ years, our instructors continue to be laser-focused on your two lifeline investments - your personnel and your technology infrastructure. Our mission is to work together efficiently to maximize the value of your communication technologies.

Motorola Solutions is aware of the impact training experiences have on your team and your organization. When it comes to supporting the success of your employees and your technology infrastructure, we seek to continually deliver exceptional training to you.

For over 10 years, we have built and implemented the Training Performance

Monitoring & Assessment (TPMA) framework in our organization. Our internal instructors are held to the highest level of training standards outlined within the Learning & Performance Institute (LPI). The TPMA certificate is widely-recognized and accepted as the premiere institute for learning, assessing and benchmarking trainer progress.

Anywhere in the world, those who hold a TPMA certificate demonstrate that they have reached or exceeded the highest standards demanded within the industry.

WHY DO TPMA CERTIFICATIONS MATTER?

Adopting TPMA standards is essential to meet industry trends and leading industry best practices to meet user needs, enhance

instructor development and ultimately leads to a happy customer experience.

LPI ensures the quality of the instructors' training delivery is maintained and meets the highest quality standards, provides expert feedback on their performance and promotes the development of their facilitator skills.

Visit us at learning.motorolasolutions.com to register for our training courses.

ACHIEVING OPTIMAL PERFORMANCE MATTERS TO US

- We focus on the needs of the learner, not the trainer
- The personalized approach and structured consistency of standardized-requirements help win business

"The instructor did an outstanding job. Truly a professional and extremely knowledgeable. Never rushed and always listened. Provided feedback to all questions and allowed students to participate at their own level of expertise and speed."

"The Instructor was extremely helpful during the training. He has an excellent way of teaching and was very attentive to the students when asked questions. I liked that he went over each and every field of CPS. Excellent Instructor! I would recommend to anyone!"

"The instructor showed outstanding skills to combine theory, practice, actual cases and hands-on training. Great training."

"Exceptional course, no words to explain the instructor's commitment and professionalism. Vast experience, humbleness, patience and amazing teaching skills. A different and positive class."

"Excellent coach. Direct, precise, detailed. Explain everything in the right way. Honestly, the best coach I have ever had. They do not skip anything, explain everything in detail. My knowledge after this training is much better. During the entire training, he was fully committed to us."

"The best teacher I have ever had in any previous training courses. Very challenging and interactive teaching helping me to understand the system from the bottom to top with a lot of additional slides from the teacher with extremely good and clear explanations in the system networking for deeper understanding."

"One of the best instructors I had. Speaks clearly, responsive to the students; actions and very good at making the students stay alert and attentive."

"Amazing training, very glad to join it. Amazing trainer, very vibrant, very knowledgeable trainer. Looking forward to more training with him. Good trainer from a good company."

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LEARNING SUBSCRIPTIONS

Embracing new technologies and capabilities requires continuous education and training to ensure you and your teams are ready for the moments that matter. All of us can relate to the challenge of keeping up-to-date with evolving features, products, and services.

Today, we are seeing a shift toward the creation of new, agile learning solutions that combine formal learning, informal learning, information, and collaboration. This shift from a more “content-focused” to a “learner-focused” education centers on providing skills and practices that enable lifelong learning and independent problem solving. This learner-centered educational approach allows each individual to choose what they will learn and how they will pace their learning –

promoting a more engaged learning environment.

At Motorola Solutions, we have developed a Learning Subscription Program that provides your team with simple access to learning content via educational hubs. This unified platform combines Motorola Solutions and agency training resources into a single, always-available hub to simplify processes and save time so that your team has the education needed to be ready for the moment. The Learning Subscription includes unlimited training access of your preferred technology and is supported by the Motorola Solutions’ Learning Experience Portal (LXP) - a platform to collocate all of your growing training requirements.

Exciting features to look forward to:

- Easy Access to Motorola Solutions Learning Content
 - Select your preferred technology training content to access online, all the time and from anywhere.
 - Gain introductory knowledge to Motorola Solutions’ entire product lines with beginner training from our large training library
 - Quickly find all of your latest product documentation
 - Add additional product technologies as your needs grow
- Expert Connections with Motorola Solutions Learning and Industry Professionals
 - Join a Virtual Professor forum with instructor technology experts
 - Collaborate with us to curate role-specific learning experiences
- Your Training Programs combined with Our People Technology
 - Collocate your agency compliance training with your technology training in one platform
 - Track and report your teams’ training progress from one, organization-branded learning portal



Your organization needs a continuous education and training system that is simple, agile, and cost-effective. [Learn more about how the Learning Subscription Program](#) can help you and your team.

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EDUCATION PACKAGES

Motorola Solutions Education Packages have been built by our technical education experts, to provide you a simpler way to select the right learning activities from our extensive training portfolio. These packages are all designed considering four vital aspects:

- Your Motorola Solutions Infrastructure & Devices
- The Level of Support provided by Motorola Solutions
- The tasks undertaken by your team, and
- The roles of the professionals in charge of those tasks

Behind these packages there are Education Services professionals whose aim is to fully prepare your team to achieve desired organizational efficiency and outcomes by ensuring that they have the knowledge, skill and competency needed to effectively interact with your Motorola Solutions technology investment.

If you wish to customize your Motorola Solutions training strategy, ask our Professional Education Services team to analyze your specific technical and end user training needs and gaps. Please work with your Motorola Solutions account representative to request this professional service.

Let Motorola Solutions Education Services help you ensure that your organization provides effortless and reliable communications, and keep your lifeline stronger than ever!

ASTRO® INFRASTRUCTURE EDUCATION PACKAGES



COMPLEMENT EDUCATION PACKAGE

Prepare your team to operate your ASTRO® Solution, achieving optimal organizational efficiency.

TOPICS

System Overview, Upgrade Differences, MyView Portal, Device End-User Best Practices, Dispatch End-User Best Practices

SUPPLEMENT EDUCATION PACKAGE

Prepare your team to operate and administer your ASTRO® Solution, achieving optimal organizational efficiency.

TOPICS

System Overview, Administration, Secure Communications, Upgrade Differences, MyView Portal, Device End-User Best Practices, Dispatch End-User Best Practices

SUPPORT EDUCATION PACKAGE

Prepare your team to operate, administer, and maintain your ASTRO® Solution, achieving optimal organizational efficiency.

TOPICS

System Overview, Core, RF-Subsystems, Transport, Administration, Dispatch, Secure Communications, Security Patch Management, Device End-User Best Practices, Dispatch End-User Best Practices

ASTRO® DEVICES EDUCATION PACKAGES



COMPLEMENT EDUCATION PACKAGE

Prepare your team to operate your APX™ devices.

TOPICS

Device Overview, MyView Portal, Device End-User Best Practices

SUPPLEMENT EDUCATION PACKAGE

Prepare your team to operate and administer your APX™ devices.

TOPICS

Device Overview, Programming and Radio Management, Device End-User Best Practices

SUPPORT EDUCATION PACKAGE

Prepare your team to operate, administer, and maintain your APX™ devices.

TOPICS

Device Overview, Programming and Radio Management, Radio Maintenance, Device End-User Best Practices

Talk with your Motorola Solutions contact for a quote, or email us at portal.support@motorolasolutions.com for more information on how to sign your team up for one of our Education Services Packages.

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SAMPLE PACKAGES

ASTRO® INFRASTRUCTURE SUPPLEMENT EDUCATION PACKAGE

This Education Package aligns with the Infrastructure ADVANCED Services Package



- ASTRO® 25 SYSTEM OVERVIEW
- MY VIEW PORTAL OVERVIEW
- ASTRO® FEATURES AND FUNCTIONALITY
- ASTRO® 25 SYSTEM FLEETMAPPING
- ASTRO® 25 IV&D RADIO SYSTEM ADMINISTRATOR
- MCC 7000 SERIES MANAGEMENT
- CONSOLE ADMINISTRATOR & DISPATCH END-USER TRAINING
- RADIO END-USER TRAIN THE TRAINER
- WAVE™ ADMINISTRATION & END-USER TRAINING
- RADIO AUTHENTICATION
- EXECUTIVE OVERVIEW
- ASTRO® 25 IV&D SECURE COMMUNICATIONS

APX™ DEVICE SUPPORT EDUCATION PACKAGE

This Education Package aligns with the APX Device ESSENTIAL Services Package

- APX QUICK START
- APX RADIO MANAGEMENT OVERVIEW
- APX CPS PROGRAMMING & TEMPLATE BUILDING
- APX RADIO MANAGEMENT WORKSHOP
- APX TECHNICAL SUBSCRIBER ACADEMY
- RADIO END-USER TRAIN THE TRAINER

LEGEND:

-  – Foundation
-  – Administration
-  – Maintenance
-  – Device & Console Best Practices
-  – Optional

Talk with your Motorola Solutions contact for a quote, or email us at portal.support@motorolasolutions.com for more information on how to sign your team up for one of our Education Services Packages.



OPERATOR TRAINING

THE SUCCESSFUL IMPLEMENTATION OF YOUR COMMUNICATIONS SYSTEM DEPENDS ON ITS CONFIDENT USERS.

Users of your mobile and portable radios require training on their units to understand its basic operation, features and functions.

Dispatchers of your consoles require training to understand basic operation, features and functions; management personnel require training on the Motorola Solutions applications.

TRAIN THE TRAINER

With this option, Motorola Solutions trains your qualified instructors so that they, in turn, can train each individual user in your organization. These classes are usually delivered on site using your equipment and our end-user training materials, that can be tailored if needed.

AUDIENCE

This course is geared for customers who have an experienced, dedicated training staff in their organization.

COURSE OVERVIEW

This course provides your training personnel knowledge and practice that will enable them to successfully train their students. It concentrates on specific product features and how it relates to the training process; students will become proficient in discussing common tasks associated with the operation of their radios and consoles, as identified in the training needs analysis.

Note: This course is presented as customer specific and will cover pertinent information on customer equipment.

REQUISITE KNOWLEDGE

Previous training experience and radio system knowledge is a must.

OPERATOR TRAINING

With this option, the users within your organization are trained by a Motorola Solutions instructor. These classes are typically done on site using your equipment and our end-user training materials, that can be tailored if needed.

CONSOLES TRAINING

These courses provide operators and supervisors with an introduction to the basic operation, administration and feature functionality of the Console Systems. Through facilitation and hands-on practice, users learn to perform tasks that are associated with their organization's particular system.

- Overview of console configuration
- Console dispatcher and supervisor operation
- Alias Management
- Messaging

SUBSCRIBER TRAINING

These courses provide radio users with an introduction to their radios and a review of their radio's basic functionality. Through facilitation and hands-on practice, users learn to perform common tasks associated with their radio configuration.

- Overview of radio configuration
- General radio operations

COURSES FOR CONSOLE PRODUCTS

- MCC 7000 Series Dispatch Console Administrator Training
- MCC 7000 Series Dispatch Console Operator Training
- MKM 7000 Console Alias Manager
- MCD 5000 Operator

COURSES FOR MOBILES & PORTABLES

- APX™ Series
- MOTOTRBO™ Series

TO REQUEST FIELD TRAINING, PLEASE CONTACT YOUR ACCOUNT MANAGER.

Note: End-user training materials are not sold as standalone products, they are part of our Train-the-Trainer or Operator training programmes.

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TAILORED TRAINING: ANALYSIS AND CONSULTATION SERVICES

The variety of services we offer reflects our desire to make sure all our customers find the right training option for them. For those who demand fully personalized training support, and acknowledge the value consulting with experts brings, we are looking forward to partnering with you in the design, implementation, and evaluation of your product and solutions technical training strategy.

Our training consultants and technology experts will complete a thorough analysis of your infrastructure and the results your organization pursues, the challenges your team faces, the performance they aim to achieve, and the new capabilities they need to acquire.

The outcome of that analysis will be a tailored learning proposal, designed just for you and your particular circumstances and preferences. It will also be the route map for our instructors, and the point of reference for evaluations of learning, results, or expectations.

TRAINING OPTIONS

In this catalog, you will find a selection of the more than 500 training resources that form our training portfolio, and a variety of learning methodologies.

Choosing the most suitable training delivery method depends on multiple factors, as organizational goals, learning objectives, or circumstances out of our control limiting our choices. Regardless of what those circumstances are, our purpose is to make sure you always find in our training offer a valid alternative to keep your personnel abreast.

LIVE TRAINING

It consists of scheduled sessions delivered either remotely or in a conventional classroom, but always led by a technical instructor.

In Motorola Solutions remote live training, the benefits of instructor-led sessions are moved to a virtual environment; thanks to the distance learning technologies we use and our remote labs, learners and instructors interact and collaborate in real time. Live discussions, demonstrations, and online activities happen in these remote sessions.

The same instructors also deliver training in traditional training facilities, and during those face-to-face sessions, they specially focus on hands-on training, allowing learners to immerse themselves in the subject, and practice in a safe environment.

Whether you are interested in one of these methods or a combination of them, either if our off-the-shelf courses meet your needs or you need them customized to suit your requirements, contact us now to start working together on your training strategy.

SELF-PACED TRAINING

It allows your team to gain foundational knowledge on a variety of topics using their computer and at their own schedule. There are two main types of self-paced training:

- Online courses: a single piece of training, with defined objectives and estimated duration.
- Microlearning: a collection of brief, mobile-enabled components grouped into related topics.



UNDERSTANDING THE ICONS



LIVE TRAINING

VIRTUAL / FACE-TO-FACE TUTOR-LED TRAINING



SELF-PACED TRAINING

ONLINE COURSES / MICROLEARNING



EXAM

Where to start? Our training paths will let you know the starting point and milestones of your development, so you can make sure you acquire the right knowledge to make the most of each step of your learning process.



LEARNING EXPERIENCE PORTAL

AN INTERACTIVE PLATFORM... DESIGNED FOR YOU! THE LXP IS YOUR VALUABLE RESOURCE TO SEE THE LATEST COURSES, DESCRIPTIONS, REQUIREMENTS, DATES AND LOCATIONS.

Use the search box and filters feature to quickly and easily search for training or documentation.

View your history and upcoming training on your personalized dashboard.

Receive reminder notifications of upcoming training or changes to your training.

Easily locate and download documents plus stay up-to-date with training news and announcements.



GENERAL INFORMATION

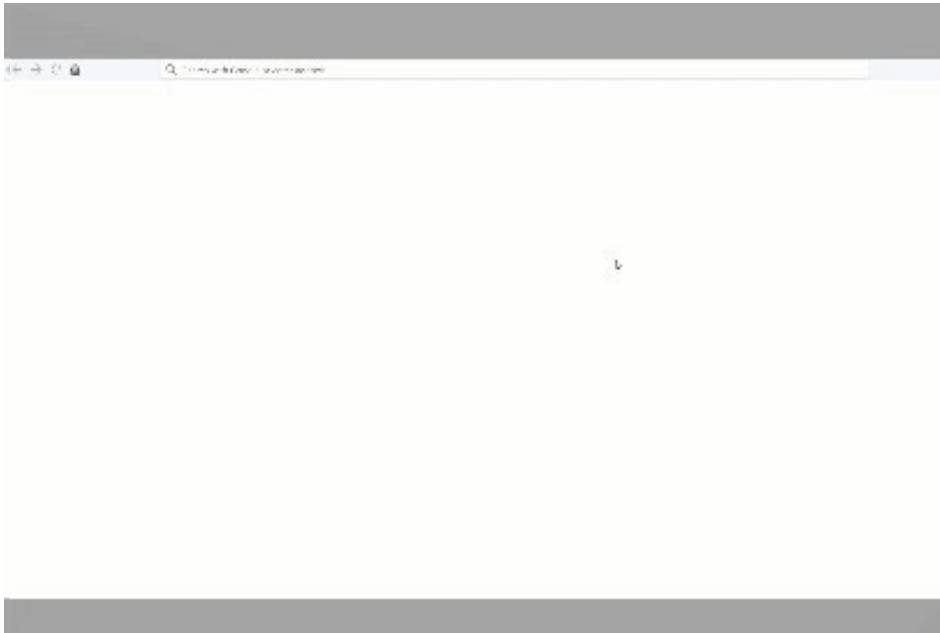
For information on prerequisites and to register for courses visit the LXP at:
[LEARNING.MOTOROLASOLUTIONS.COM](https://learning.motorolasolutions.com)

For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com

HOW TO ACCESS THE LEARNING EXPERIENCE PORTAL

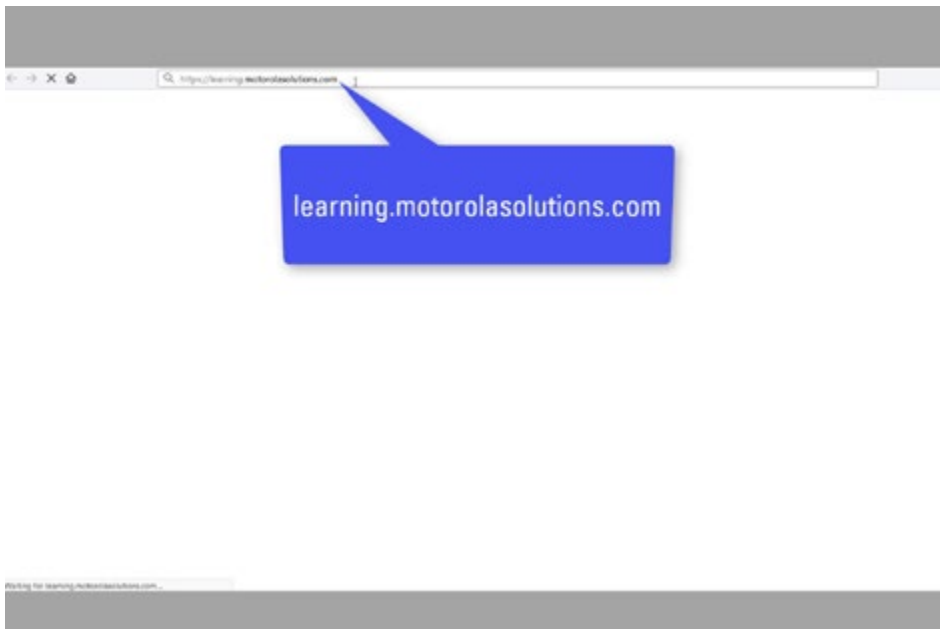
If you are a Motorola Solutions Customer who already has a Motorola Solutions Login ID, you can go to the “Enroll in a course” section for further instructions.

SET UP A NEW USER ACCOUNT AND PASSWORD



- Visit: <https://learning.motorolasolutions.com>
- Click “Register”
- Fill out all the required information on the form; preferably, use a company email address during the registration process (if you are a MSI Customer with an established 10-digit Motorola Customer Account Number, please enter your Company Name in the form)
- Click “Submit”
- You will receive a confirmation of your submission
- You will next receive further information to activate your account (Up to 5 business days)

TO ENROLL IN A COURSE (ONCE YOU HAVE AN LXP ACCOUNT)



- Log in to the LXP: <https://learning.motorolasolutions.com>
- Click on “LOG IN”
- **Enter your Log In ID and Password and Click “LOG IN”**
- If you have forgotten your Log In or Password click on “Forgot Log In ID” or “Forgot Password”
- Find a training course by clicking “Browse Training” at the top of the screen Or use “Search Catalog” at the top of the screen

* If you are looking for FCC Narrowband training and you do not have an established 10-digit Motorola Customer Account Number with us, please visit businessonline.motorolasolutions.com for account set up and training access.

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HELPFUL INFORMATION

HOW TO MAKE PAYMENTS WHEN ENROLLING IN A COURSE

For your convenience we accept the following methods of payment:

- Credit Card
- Purchase Order
- Notice to Proceed
- Training Banks

If prepayment is required to secure your registration, it must be received by Motorola Solutions 30 days prior to your attendance.

Contact the help desk above for assistance with payments and purchase orders specifications. All pricing listed is US dollars.

FOR QUESTIONS AND ASSISTANCE

Call the Education help desk at: 800-247-2346

Monday – Friday,
8:00 a.m. – 5:00 p.m. Central Time

or email us at:

portal.support@motorolasolutions.com

Note: Invoices are available only when using purchase orders.

TRAINING BANKS

Whether you are a technician, system manager or radio user, you rely on Motorola Solutions Education Services to obtain the necessary knowledge to get the full potential out of your Motorola Solutions equipment. The Motorola Solutions Training Bank is a discounted, pre-paid, non-expiring debit account that allows you to budget up front for your training needs. Training Banks can be applied towards all training options including, Instructor-Led Tailored Field Courses.

There are several benefits to Training Banks including:

- Allows you to budget up front for training needs
- Provides cost savings through discounted pricing tiers to maximize your training investment
- Does not require multiple POs, thus reducing internal approval cycle time and paperwork
- Training Banks do not expire

For more information on Training Banks, please visit us at https://www.motorolasolutions.com/en_us/products/training/training-bank.html or email us at portal.support@motorolasolutions.com.

Note: Training Banks are only applicable to non-federal government customers.

POLICIES & REQUIREMENTS

CANCELLATION AND RESCHEDULING BY THE STUDENT

Registrants may cancel or reschedule a class no less than 30 days prior to the class start date. Cancellations received after the stated deadline will not be eligible for a refund.

CANCELLATION AND RESCHEDULING BY MOTOROLA SOLUTIONS

Motorola Solutions Training Services reserves the right to cancel any course due to low enrollment or other circumstances which would make the event non-viable up to 10 business days prior to the start of class.

If Motorola Solutions cancels a class, the registrants will be offered a full refund. Registrants will be notified at the time of change or cancellation with regards to the cancellation and refund process.

For more information about our Cancellation Policy, visit <https://learning.motorolasolutions.com/content/cancellation-policy>

PROFESSIONALISM

Students are expected to maintain professional conduct and dress at all times. Class dress is casual, but smart. For safety and security reasons, we cannot permit shorts, thong type sandals, or tank tops in the classroom.

LAPTOP REQUIREMENTS

All our classes require students to bring their laptops to the classroom so that they may utilize an electronic copy of the class material. Please review your enrollment confirmation email for specific requirements for your class.

TRAINING CONTENT AND STRATEGY DISCLAIMER

All of Motorola Solutions training classes are designed to support the Motorola Solutions Service strategy for each product. This strategy may include a combination of (but not limited to) processes, procedures, recommendations, and instructor experiential advice which may involve repair, replacement, and or recovery of hardware, software, or firmware of Motorola Solutions products. The repair, replacement, or recovery of these products may vary from product to product. Motorola Solutions reserves the right to change the structure and content of all courses at any time. Find more information about Terms & Conditions, visit <https://learning.motorolasolutions.com/content/terms-and-conditions>



MOTOROLA SOLUTIONS TECHNICAL TRAINING COURSES

The following pages contain a selection of the courses that form our extensive portfolio, and also roadmaps to let you know the starting point and milestones of your development.

GENERAL INFORMATION

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COURSE INDEX

Use this matrix to quickly identify the targeted role and system life cycle phase of each course.

Portfolio	Course code & Type	Course title	System Life Cycle Phases							
			Foundations	Product/System introduction	Stage & Deploy	Operate	Maintain	Administrator	Technician	End User
Radio Foundations	● NST9252	Introduction to R56	•					•	•	
	● RDS0002	Basic RF	•					•	•	
	● RDS0003	Basic Networking	•					•	•	
	● RDS0004	Basic Radio	•					•	•	•
	● RDS1004	RF Energy Exposure and Product Safety Compliance	•	•	•			•	•	•
	● NST021	Communication System Concepts	•					•	•	
	● NST762	Networking Essentials in Motorola Communications Equipment	•					•	•	
	● NST925	Site Installation Practices Workshop R56	•					•	•	
	● SRV1010	Server and Virtualization Foundation	•					•	•	
ASTRO® Systems	● ACS715023	ASTRO® 25 IV&D DYNAMIC SYSTEM RESILIENCE		•				•	•	
	● ACS715211	ASTRO® 25 IV&D Information Assurance Overview		•				•	•	
	● ACT100E	Bridging the Knowledge Gap - Technicians	•						•	
	● ACT101E	Bridging the Knowledge Gap - System Administrator	•					•		
	● AST1038	ASTRO® 25 IV&D System Overview		•				•	•	
	● AST2005	ASTRO® 25 ISSI 8000 / CSSI 8000 Feature Overview		•				•	•	
	● AST0072	ASTRO® 25 Customer Enterprise Network Workshop			•	•	•	•	•	
	● AST2006	Standalone GTR8000 Conventional Base Radio			•	•	•	•	•	
	● AST2015	ASTRO 25 Domain Controller Administration			•	•	•	•	•	
	● AST2038	ASTRO® 25 Radio Authentication			•	•	•	•	•	
	● AST4102	ASTRO® 25 IV&D Radio System Administrator Workshop			•	•	•	•	•	
	● AST4103	ASTRO® 25 IV&D System Core Workshop			•	•	•	•	•	
	● AST4104	ASTRO® 25 Systems Applied Networking	•					•	•	
	● AST4207	ASTRO® 25 IV&D Secure Communications Workshop			•	•	•	•	•	
	● AST4208	ASTRO® 25 IV&D GTR 8000 Repeater Site Workshop			•				•	•
	● AST4217	ASTRO® 25 IV&D IP Based Digital Simulcast Workshop			•	•	•	•	•	
	● AST4410	ASTRO® 25 IV&D Conventional Core with Configuration Manager Workshop				•	•	•	•	
	● AST4440	ASTRO® 25 IV&D Conventional RF Site Workshop				•	•	•	•	
	● CON012	MCC 7000 Series Dispatch Consoles Workshop				•	•	•	•	
	● RDS1017	ASTRO® 25 Systems Fleetmapping				•	•	•	•	
● RDS1022	MCD 5000 Technical Operational Workshop				•	•	•	•		
ASTRO® Radio Management	● AST2003	APX Radio Management Overview			•	•	•	•	•	
	● AST4004	APX NEXT™ RadioCentral and MyView Overview				•	•	•	•	
	● APX7001	APX CPS Programming and Template Building				•	•	•	•	
	● AST4005	APX NEXT™ RadioCentral™ Workshop			•	•	•	•	•	
	● RDS2017	APX™ Radio Management Workshop			•	•	•	•	•	
ASTRO® Devices	● AST0037	How to Clean Your APX Portable Radio				•	•		•	•
	● AST4002	APX NEXT™ Overview		•				•	•	
	● APX010	APX™ Technical Subscriber Academy		•	•		•	•	•	•

● Live training
● Self-paced training

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Portfolio	Course code & Type	Course title								
			Foundations	Product/System introduction	Stage & Deploy	Operate	Maintain	Administrator	Technician	End User
PCR Systems	● AAE1402N	Professional and Commercial Radios (PCR) Portfolio Overview (NA)			●	●	●	●	●	●
	● PCT1046	MOTOTRBO Capacity Max Theory of Operation			●	●	●	●	●	
	● PCT1047	MOTOTRBO Capacity Max Technical Overview		●	●			●	●	
	● PCT1066	MOTOTRBO IP Site Connect and Capacity Plus Technical Overview			●	●			●	●
	● PCT1070	Motorola Edge Node Overview		●				●	●	
	● CEDMEL2000	MOTOTRBO System Introduction for Technicians		●	●				●	●
	● PCT2010	MOTOTRBO Capacity Max Design and Deploy			●	●	●	●	●	●
	● PCT2023	MOTOTRBO IP Site Connect and Capacity Plus Theory of Operations and Design			●				●	●
	● PCT3014	MOTOTRBO IP Site Connect and Capacity Plus Systems Workshop			●	●	●	●	●	●
PCR Radio Management & Devices	● PCT0115	MOTOTRBO CPS 2.0 Programming			●	●			●	●
	● PCT1032	MOTOTRBO Radio Management 2.0 Configuration Mode			●	●			●	●
	● PCT2022	MOTOTRBO Radio Management 2.0 Workshop			●	●			●	●
	● TBO300	MOTOTRBO Subscriber & Repeater Technical Service Academy			●	●			●	●
Other devices	● PTT0100N	TLK 100 Portable Two-Way Radio: End-User Training			●	●				●
	● PTT0150N	TLK 150 Mobile Two-Way Radio: End-User Training			●	●			●	●
WAVE PTX	● PTT0001N	WAVE PTX Overview				●	●	●	●	●
	● PTT0004N	WAVE PTX Admin Portal: End-User Training				●	●	●	●	●
	● PTT0006N	WAVE PTX R11.2 Mobile Application: End-User Training (NA)				●	●	●	●	
	● PSA0032	Critical Connect Portal Training			●	●	●	●	●	●
	● AST3001	WAVE Certified Integration Engineer		●	●			●	●	●
Vesta - NG911	● VST0002	VESTA Analytics Lite				●			●	●
	● VST0003	VESTA SMS Admin				●				●
	● VST0004	VESTA SMS Agent				●			●	●
	● VST0005	VESTA Map Local Agent				●				●
	● VST0006	VESTA Heads Up Display (HUD)				●			●	●
	● VST0007	VESTA Map Local Installation, Maintenance & Upgrades				●				●
	● VST0008	Data Hub for VESTA Map Local				●			●	●
	● VST0009	VESTA - Activity View				●				●
	● VST0010	VESTA Enhanced IP Phone Admin Training				●			●	●
	● VST0103	VESTA 9-1-1 Troubleshooting				●	●	●	●	
	● VST0105	VESTA 911 Installation & Maintenance/Admin (Virtual Training)				●	●	●	●	●
	● VST0106	VESTA SMS/Text to 911 Installation & Maintenance (Virtual Training)				●	●		●	
	● VST0107	911 Maintenance & Administration (Smart Hands)				●	●	●	●	●

● Live training
 ● Self-paced training

GENERAL INFORMATION

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

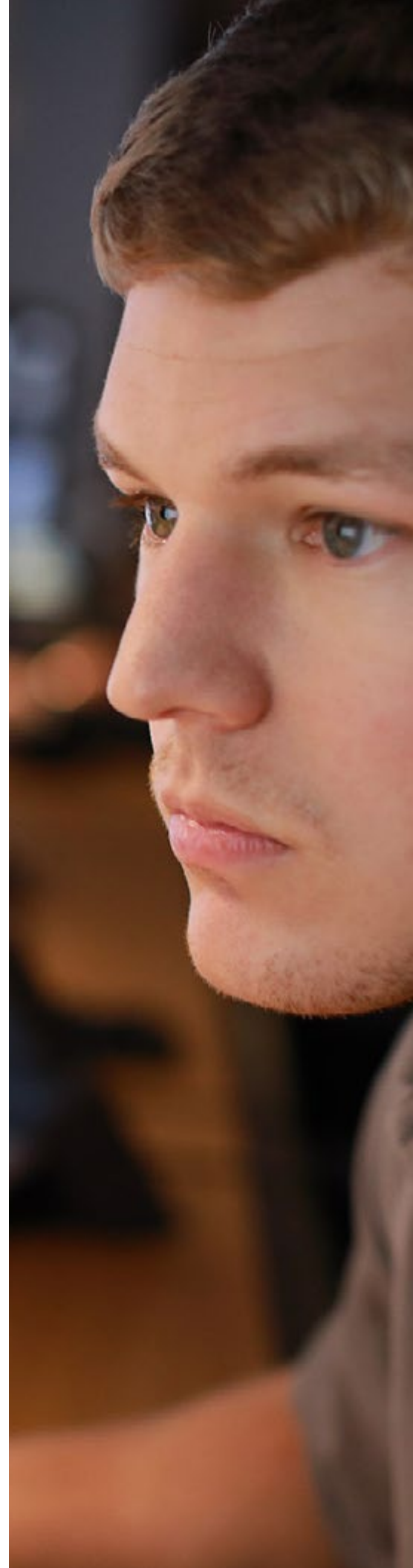
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Portfolio	Course code & Type	Course title								
			Foundations	Product/System introduction	Stage & Deploy	Operate	Maintain	Administrator	Technician	End User
CallWorks	● VST0501	CallWorks AdminiStation			●	●				●
	● VST0502	CallWorks DecisionStation			●	●				●
	● VST0503	CallWorks CallStation			●	●				●
	● VST0001	CallWorks CallStation Integration w/RapidSOS			●	●				●
	● VST0201	Emergency CallWorks Operations & Maintenance			●	●	●			●
Flex	● GLNTP0101	Flex Corrections Administration Certification		●		●			●	●
	● GLNTP0102	Flex System Application Administration Certification		●		●			●	●
	● GLNTP0103	Flex Dispatch Administration Certification		●		●			●	●
	● GLNTP0104	Flex Records Administration Certification		●		●			●	●
Cybersecurity	● CYB0161	Cyber Incident Response- Data Collection and Analysis		●		●			●	●
	● CYB0162	Cyber Incident Response - Vulnerability Assessment		●		●			●	●
	● CYB0163	Cyber Incident Response - The Incident Response Process		●		●			●	●
	● CYB0164	Cyber Incident Response- Incident Response, Methods, Tools and Techniques		●		●			●	●
	● CYB0165	Cyber Incident Response- Threats and Attacks		●		●			●	●
WatchGuard / Mobile Video	● WTG0100	4RE - Basic Operation for In-Car Officers				●			●	●
	● WTG0101	V300 Body-Worn Camera				●			●	●
	● WTG0102	VideoManager EL Cloud				●			●	●
	● WTG0103	VideoManager EL On-Prem				●			●	●
	● WTG0104	VISTA & VISTA WiFi Body Camera				●			●	●
	● WTG0105	REDACTIVE User Training				●			●	●
	● WTG0106	Evidence Library 4 Web				●			●	●
	● WTG0108	V300 Body-Worn Camera Release 3.0.1 and Later				●			●	●
	● WTG0200	M500 User Training				●			●	●
	● WTG0500	4RE Vehicle Installation Certification				●			●	●
	● WTG0107	CommandCentral Evidence Deployment User Training				●			●	●
	● WTG0304	CommandCentral Evidence Deployment Admin Training				●			●	●
	● WTG0401	4RE Factory Training				●			●	●
	● WTG0402	M500 Factory Training				●			●	●
	● WTG0502	4RE Vehicle Installation Certification				●			●	●
● WTG0503	M500 Vehicle Installation Certificaton				●			●	●	

● Live training
● Self-paced training

FOUNDATIONAL COURSES

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BASIC NETWORKING (RDS0003)	21
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COMMUNICATION SYSTEMS CONCEPTS (NST021)	22
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SITE INSTALLATION PRACTICES WORKSHOP R56 (NST925)	23
SERVER & VIRTUALIZATION FOUNDATION (SRV1010)	23



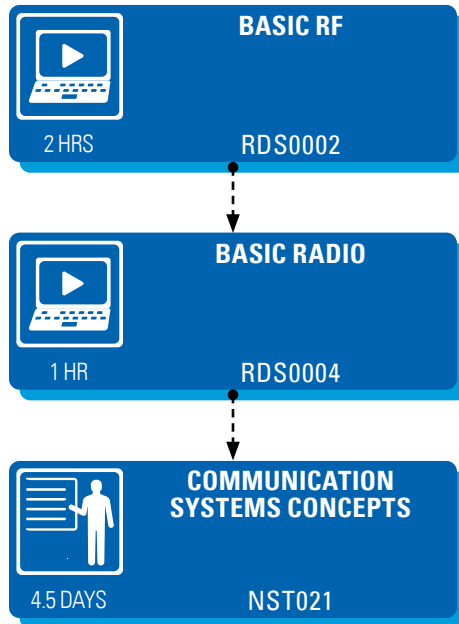
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RF FUNDAMENTALS

RF BASICS / RADIO SYSTEM BASICS



CURRICULUM COMPLETE

PARTICIPANT HAS RF KNOWLEDGE REQUIRED FOR ADVANCING TO MORE COMPLEX TECHNICAL TRAINING COURSES.

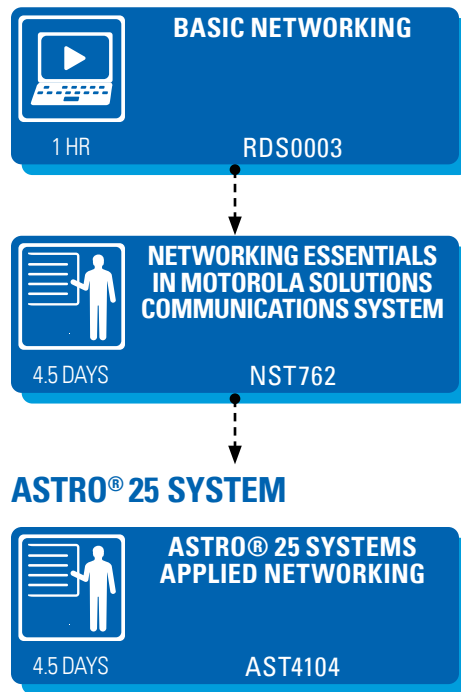


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IP/NETWORKING FUNDAMENTALS



CURRICULUM COMPLETE

PARTICIPANT HAS IP PROTOCOLS AND NETWORKING SKILLS TO USE MOTOROLA SOLUTIONS SYSTEMS REQUIRING ADVANCED TECHNICAL TRAINING.



[CLICK HERE TO GO TO PAGE 24 FOR MORE DETAILS ON ASTRO® 25](#)

[CLICK HERE TO GO TO PAGE 44 FOR MORE DETAILS ON MOTOTRBO™](#)

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INTRODUCTION TO R56
1.5 HR
NST9252

COURSE OVERVIEW

The purpose of this course is to present a high level overview of the RF site design and construction process, in line with the guidelines listed in Motorola Solutions' Standards and Guidelines for Communication Sites (R56) manual.

TARGET AUDIENCE

Technicians who need an introduction to the R56 processes.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Describe the site design and development tasks needed to meet R56 requirements.
- Describe the building and shelter design and installation tasks needed to meet R56 requirements.
- Identify the proper external and internal grounding tasks needed to meet R56 requirements.
- Identify transient voltage surge suppression needs that meet R56 requirements.
- Minimize the impact of RF Site Interference, in line with R56 requirements.
- Identify the equipment installation tasks needed to meet R56 requirements.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



BASIC RF
2 HRS
RDS0002

COURSE OVERVIEW

This course emphasizes the concepts behind RF Systems theory and operation. Topics include basic radio transmitters and receivers, RF propagation, modulation, antenna systems, transmission lines and data-communications.

TARGET AUDIENCE

Technical staff who need to understand communication systems concepts.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe electrical principles, including direct and alternating current.
- Describe the basic structure of radio transmitters and receivers.
- Describe the operation of the antenna system.
- Identify different types of transmission media.
- Describe RF propagation and understand system gains in a link budget.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



BASIC NETWORKING
1 HR
RDS0003

COURSE OVERVIEW

This course provides a detailed overview of the fundamentals of computer networking. Topics include the TCP/IP five layer model, interconnecting devices, transmission media, user-facing applications and network security.

TARGET AUDIENCE

Engineers who need to understand the essentials of system networking.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Identify the elements and interconnectivity of a basic network
- Define the OSI and TCP/IP Models
- Define the advantages of different Network Layout Options
- List the Physical and Data-Link Layers of the OSI and TCP/IP Models
- Define the Network and Transport Layers of the OSI and TCP/IP Models
- Identify the Service Layers within the OSI and TCP/IP Model
- Define the concept of Network Security.
- Identify standards organizations

REQUISITE KNOWLEDGE

None

PREREQUISITES

None

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BASIC RADIO

1 HR RDS0004

COURSE OVERVIEW

The purpose of this course is to provide the student with the basic, foundational land mobile two-way radio knowledge required when working with Motorola Solutions. This course is ideal for all people who sell or service land mobile two-way radios.

TARGET AUDIENCE

Individuals who need a foundational overview of two-way radios.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Define what a two-way radio is.
- Describe two-way radio components.
- Describe communication types.
- List and describe ways of expanding coverage.
- Describe analog and digital solutions.
- Describe how transmit and receive processes work in conventional and trunked two-way radio.
- Define system scalability.
- Identify the considerations to implementing a two-way radio.
- List the characteristics of single-site, single-zone and multi-zone systems.
- Explain the concept of two-way radio security.
- Describe the open standards for the following technologies: APCO P25, TETRA and DMR.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- RDS0002 Basic RF

PREREQUISITES

None



RF ENERGY EXPOSURE AND PRODUCT SAFETY COMPLIANCE

0.5 HRS RDS1004

COURSE OVERVIEW

This course provides the basics of Radio Frequency (RF) energy and electromagnetic interference, presents regulatory bodies, occupational requirements in national and international standards as well as operating instructions for safe use of two-way radios.

TARGET AUDIENCE

Professionals who need to learn the overview of regulatory standards of professional two-way radios

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Use professional grade two-way radios in accordance with applicable RF energy exposure standards and regulations.
- Exercise control over RF exposure when using a two-way radio.
- Follow proper operating practices for usage of professional grade two-way radios.
- Identify the effects of electromagnetic interference.
- Follow procedures for use of two-way radios in blasting areas and explosive atmospheres.
- Follow guidelines for acoustic safety.
- Handle the antennas and batteries of two-way radios in accordance with RF energy exposure guidelines.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



COMMUNICATION SYSTEMS CONCEPTS

4.5 DAYS NST021

COURSE OVERVIEW

This course emphasizes the concepts behind RF Systems theory and operation. Major topics covered include:

- RF System Operation, including talkaround, repeater operation, and types of signaling used in RF Systems
- A basic walkthrough of building a communication system from Simplex, to Half Duplex, Voting Systems, and Simulcast is done, emphasizing the improvements in communication obtained with each step.
- Trunking Operation, including Smartzone operation
- Types of modulation used in RF System operation, including ASTRO®
- Radio frequency path including the antenna and transmission line
- Decibels and their uses on the job
- RF Propagation/RF Interference
- Basic Troubleshooting practices from the system perspective

TARGET AUDIENCE

Individuals who are interested in the operational concepts driving modern communication systems.

COURSE OBJECTIVES

Upon completing this course, the student will be able to:

- Define terms commonly used in two-way communication systems
- Effectively use two-way radio communication systems knowledge to troubleshoot typical two-way communication radio systems
- Develop requirements for a two-way radio system by establishing programming and protocol requirements as requested
- Improve skills in the interpretation of typical two-way radio checks of the receiver, transmitter and the antenna system to troubleshoot a two-way radio communication system
- Use decibels to interpret the radio frequency path and antenna system to describe expected radio communication system performance and troubleshooting

REQUISITE KNOWLEDGE

- Knowledge of basic electronics
- Experience using standard communication test equipment

PREREQUISITES

None

RADIO SOLUTIONS FOUNDATIONAL

For information on prerequisites and to register for courses visit the LXP at:
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**NETWORKING ESSENTIALS
IN MOTOROLA SOLUTIONS
COMMUNICATIONS
EQUIPMENT**

4.5 DAYS NST762

COURSE OVERVIEW

The Networking Essentials in Motorola Solutions Communications Equipment course provides the technician with the essential elements of networking required for the installation and maintenance of most Motorola Solutions communications systems. The course includes ample hands-on and basic troubleshooting on network elements.

TARGET AUDIENCE

System Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Recall basic network terminology
- Compare basic configuration types, both logical and physical
- Describe the basic OSI (Open System Interconnect) model compared with the TCP/IP model
- Construct a basic LAN with a Windows Server Domain Controller and workstations
- Examine the interaction between the routers through their configurations
- Use common network commands to simulate traffic and validate connectivity and routing

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience is highly recommended:

- An understanding of basic Motorola Communications Systems
- Basic familiarization with computer operating systems
- Basic knowledge of networking (RDS0003 - Basic Networking)

PREREQUISITES

None



**SITE INSTALLATION
PRACTICES WORKSHOP R56**

3.5 DAYS NST925

COURSE OVERVIEW

The Site Installation Practices Workshop R56 course is designed to present the standards and guidelines for installing a Motorola Solutions communication system. Participants will understand how a properly installed system can help to ensure a safe and efficient communications system, reducing system down time. All students are encouraged to download the Preparation Guide.

TARGET AUDIENCE

Technical System Managers and Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Have the basic knowledge required to install communications equipment as described in the Motorola Solutions manual, Standards and Guidelines for Communication Sites (R56).
- Review the general concepts of R56:
 - Building Design and Installation
 - Grounding (external and internal)
 - Power Sources
 - Surge Suppression
 - Equipment Installation
 - Clamp-on Ground Resistance Tester
- Prepare students for the certification exam from the Electronics Technicians

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- Graduate of a basic electronics course

PREREQUISITES

None



**SERVER AND
VIRTUALIZATION
FOUNDATION**

4 DAYS SRV1010

COURSE OVERVIEW

This course will prepare students to install a server and understand the basics of supported virtualization application. The course covers BIOS configuration, installing supported virtualization applications, installing a client and server OS and verifying operations. The course includes hands-on lab exercises.

TARGET AUDIENCE

Technical Support Staff who need to understand virtual servers or install servers that utilize Virtual Machines (VM).

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Configure BIOS parameters for server hardware
- Demonstrate basic knowledge of supported virtualization application, including capacity
- Install supported virtualization application on a server platform
- Configure supported virtualization application parameters of supported server hardware
- Install a Client OS and Server OS in a virtual environment
- Verify Server/Client operations in a virtual environment

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

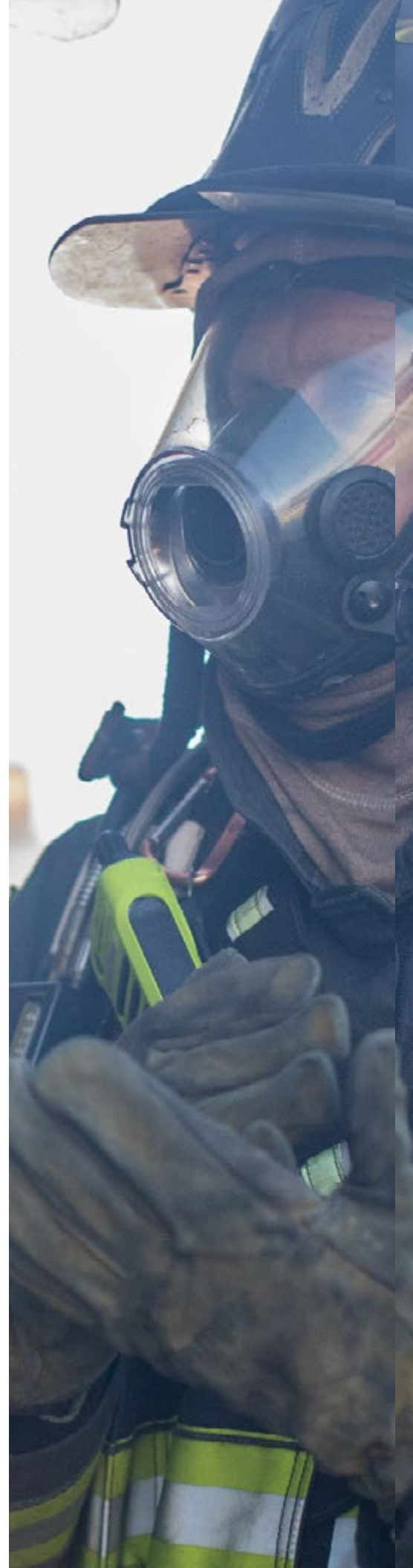
- Comp-TIA Server+ Certification or equivalent

PREREQUISITES

None

ASTRO® P25 INFRASTRUCTURE COURSES

ASTRO® 25 IV&D DYNAMIC SYSTEM RESILIENCE (ACS715023)	34
SYSTEM OVERVIEW FOR ASTRO® 25 IV&D INFORMATION ASSURANCE (ACS715211)	34
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ASTRO® P25 INFRASTRUCTURE COURSES CONT

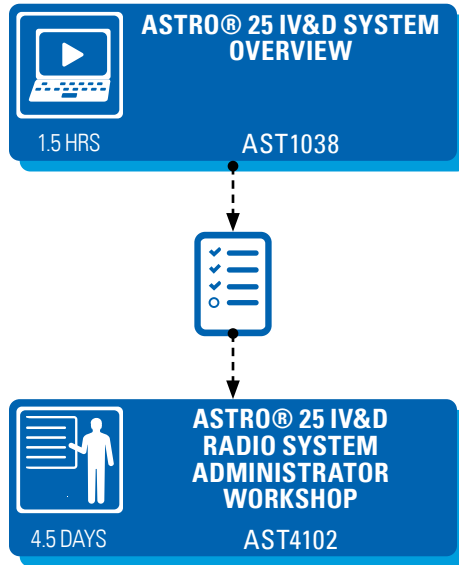
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RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 IV&D RADIO SYSTEM ADMINISTRATOR



RECOMMENDED CURRICULUM IS COMPLETE

PARTICIPANT SHOULD BE ABLE TO CARRY OUT ADMINISTRATIVE TASKS IN THE ASTRO® 25 IV&D SYSTEM SUCH AS: PROVISIONING SUBSCRIBERS AND TALK GROUPS, GENERATING HISTORICAL REPORTS, CONTROLLING DEPLOYED SUBSCRIBERS AND MANAGING NETWORK ELEMENT CONFIGURATIONS. PARTICIPANT UNDERSTANDS FACTORS OF SYSTEM CONFIGURATION THAT IMPACT ASTRO® 25 SYSTEM MANAGEMENT.

OPTIONAL TRAINING ROADMAP

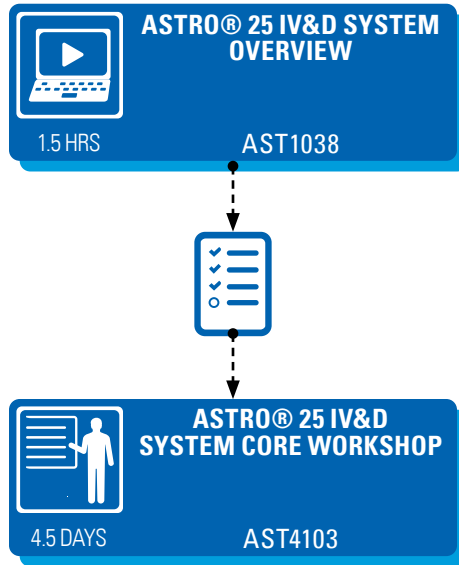
OPTIONAL TRAINING ROADMAP AVAILABLE.
CLICK ON THIS LINK TO GO TO PAGE 32
FOR ADDITIONAL DETAILS.

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 IV&D ASTRO SYSTEM CORE TECHNICIAN



RECOMMENDED CURRICULUM IS COMPLETE (i)

PARTICIPANT SHOULD UNDERSTAND ASTRO® 25 M CORE COMPONENTS, VIRTUAL SERVERS AND SERVICE STRATEGY. PARTICIPANT CAN INTERPRET SYSTEM ALARMS, PROPOSE SOLUTIONS FOR SYSTEM FAILURES, AND AS WELL AS RESTORING EQUIPMENT TO PROPER FUNCTIONALITY.

OPTIONAL TRAINING ROADMAP

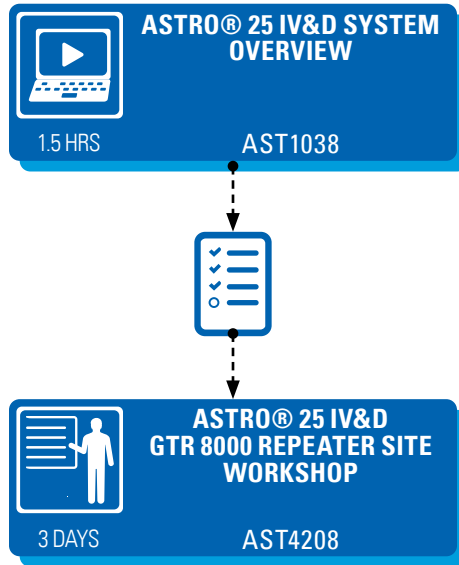
OPTIONAL TRAINING ROADMAP AVAILABLE.
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ASTRO® 25 IV&D REPEATER SITE TECHNICIAN (GTR)



RECOMMENDED CURRICULUM IS COMPLETE (i)

PARTICIPANT CAN MAINTAIN AN ASTRO® 25 REPEATER SITE INCLUDING: GTR 8000 BASE STATION, GCP8000 SITE CONTROLLER AND OTHER SITE EQUIPMENT.
*PARTICIPANT PERFORMS ALIGNMENTS TROUBLESHOOTING AND FIELD REPLACEMENT OF SITE DEVICES DURING COURSE.

OPTIONAL TRAINING ROADMAP

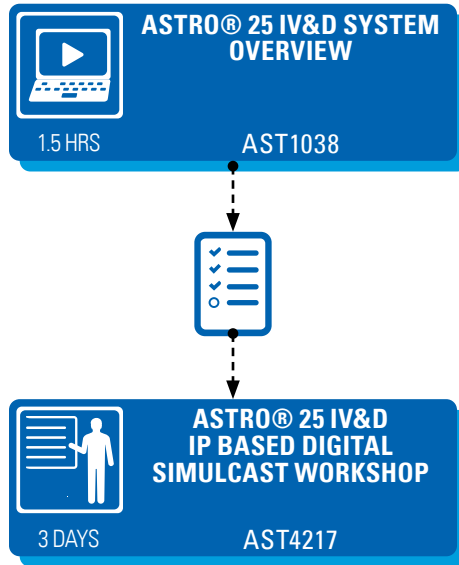
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ASTRO® 25 IV&D IP SIMULCAST SITE TECHNICIAN



RECOMMENDED CURRICULUM IS COMPLETE



PARTICIPANT SHOULD BE ABLE TO MAINTAIN AN ASTRO® 25 REPEATER SITE INCLUDING THE GTR 8000 BASE STATION, GCP8000 SITE CONTROLLER, SITE COMPARATOR AND OTHER SITE EQUIPMENT.

OPTIONAL TRAINING ROADMAP

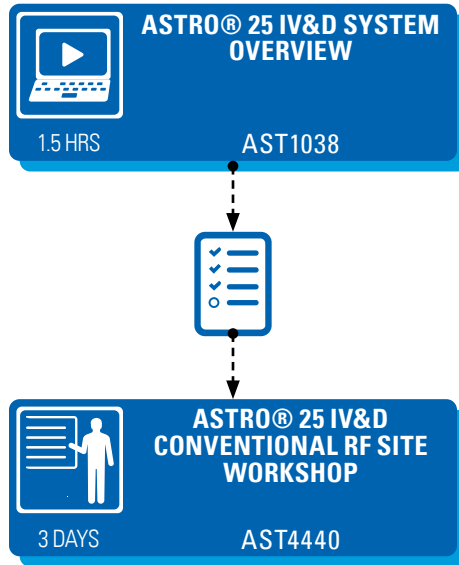
OPTIONAL TRAINING ROADMAP AVAILABLE.
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FOR ADDITIONAL DETAILS.

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 IV&D CONVENTIONAL RF SITE TECHNICIAN



RECOMMENDED CURRICULUM IS COMPLETE



PARTICIPANT SHOULD BE ABLE TO MAINTAIN AN ASTRO® 25 REPEATER SITE INCLUDING THE GTR 8000 BASE STATION, GCP8000 SITE CONTROLLER, SITE COMPARATOR AND OTHER SITE EQUIPMENT.

OPTIONAL TRAINING ROADMAP

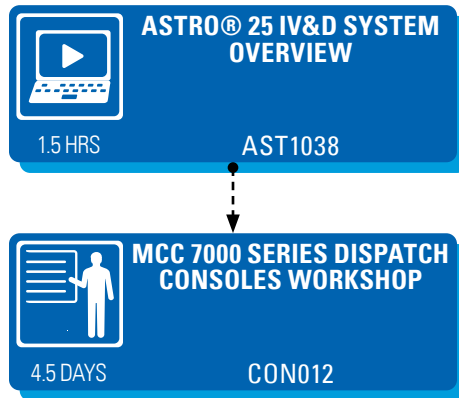
OPTIONAL TRAINING ROADMAP AVAILABLE.
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RADIO SOLUTIONS CONSOLES

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CONSOLES TECHNICAL TRAINING CURRICULUM



CURRICULUM COMPLETE



PARTICIPANT CAN MAINTAIN A MCC 7000 DISPATCH CONSOLE SITE INCLUDING: CONSOLE PC, VPM, CC GW'S AND AUX I/O SERVERS.
*PARTICIPANT PERFORMS TROUBLESHOOTING AND REPLACEMENT OF SITE DEVICES DURING COURSE.

OPTIONAL CONSOLE TRAINING

MCD 5000 TECHNICAL WORKSHOP
3 DAYS RDS1022

ASTRO® 25 IV&D DOMAIN CONTROLLER ADMINISTRATION
3 DAYS AST2015

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® IV&D OPTIONAL TRAINING CURRICULUM

Motorola Solutions offers optional training for those participants who have completed their ASTRO® 25 curriculum and want to learn more about their system's infrastructure and/or features.

Select the training course below applicable to your system.

 1 HR ASTRO® 25 IV&D DYNAMIC SYSTEM RESILIENCE ACS715023	 4 HRS ASTRO® 25 IV&D INFORMATION ASSURANCE ACS715211
 20 HRS ASTRO® 25 SECURITY PATCH MANAGEMENT AST2001	 15 HRS ASTRO® 25 SYSTEMS FLEETMAPPING RDS1017
 2 DAYS ASTRO® 25 IV&D RADIO AUTHENTICATION AST2038	 3 DAYS ASTRO® 25 IV&D DOMAIN CONTROLLER ADMINISTRATION AST2015

SUBSCRIBER OPTIONAL TRAINING CURRICULUM

 2 DAYS APX™ CPS PROGRAMMING AND TEMPLATE BUILDING APX7001	 4.5 DAYS APX™ TECHNICAL SUBSCRIBER ACADEMY APX010	 2 HRS ASTRO® 25 ISSI 8000 / CSSI 8000 FEATURE OVERVIEW AST2005
 2.5 DAYS APX™ RADIO MANAGEMENT WORKSHOP RDS2017		

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 IV&D DYNAMIC SYSTEM RESILIENCE

1 HR ACS715023

COURSE OVERVIEW

The ASTRO® 25 IV&D Dynamic System Resilience (DSR) Overview is a self-study training course intended to provide a technical overview of DSR. The course describes how DSR adds a geographically separate backup for the Master Site to protect against a catastrophic failure.

TARGET AUDIENCE

System Administrators, System Technicians, Field Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Differentiate between a non-DSR Master Site and a DSR Master Site
- Describe the DSR components, operation and functionality of each of the following services:
 - Voice
 - Data
 - Network Management
 - Network Transport
 - IP Services


REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- AST1038 ASTRO® 25 IV&D System Overview

PREREQUISITES

None



SYSTEM OVERVIEW FOR ASTRO® 25 IV&D INFORMATION ASSURANCE

4 HRS ACS715211

COURSE OVERVIEW

This web based course describes the functionality and the hardware and software associated CNI Network Security in the ASTRO® 25 IV&D System.

TARGET AUDIENCE

System Administrators, System Technicians, Field Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Define network security and its functions
- List the network security components of an ASTRO® 25 IV&D system
- Define the functions, components and operation of the Core Server Management Server (CSMS)
- Identify the functions, components and operation of the Interface Barrier (NIB)
- Identify the functions, components and operation of the border router and the peripheral network router

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- ACT100E or ACT101E Bridging the Knowledge Gap for ASTRO® 25
- NST762 Networking Essentials in Communication Equipment
- AST1038 ASTRO® 25 IV&D System Overview

PREREQUISITES

None



BRIDGING THE KNOWLEDGE GAP (TECHNICIANS)

4 HRS ACT100E

COURSE OVERVIEW

This seven-module course is designed to bring Technicians from different technical backgrounds and experience levels to a common starting point for the ASTRO 25 curriculum. This course provides seven modules from the basic concepts of radio communication systems and computer networking features, through the evolution that led to the ASTRO 25 trunking system's architecture.

TARGET AUDIENCE

This is targeted for System Administrators and other ASTRO 25 system users who are new to trunked radio systems. Also those with experience in non-IP-based radio systems like SmartNet and SmartZone.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Explain the different radio system concepts as applied to conventional and trunked systems.
- Compare analog radio communication signaling to ASTRO 25 radio communications signaling.
- Identify different communication concepts using representative block diagrams of the respective systems.
- Compare radio system communication concepts using representative block diagrams of the respective systems.
- Compare how voice and data, information flow through different radio communication system types and how the signaling information controls that flow of information.
- Describe the features of each radio communication system in terms of advantages and disadvantages

REQUISITE KNOWLEDGE

None


PREREQUISITES

None

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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BRIDGING THE KNOWLEDGE GAP - SYSTEM ADMINISTRATOR

4 HRS ACT101E

COURSE OVERVIEW

This five-module course is designed to bring Administrators from different technical backgrounds and experience levels to a common starting point for the ASTRO 25 curriculum. This course provides five modules from the basic concepts of radio communication systems and computer networking features, through the evolution that led to the ASTRO 25 trunking system's architecture.

TARGET AUDIENCE

This is targeted for System Administrators and other ASTRO 25 system users who are new to trunked radio systems. Also those with experience in non-IP-based radio systems like SmartNet and SmartZone.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Identify different communication concepts using representative block diagrams of the respective systems.
- Compare radio system communication concepts using representative block diagrams of the respective systems.
- Compare how voice and data, information flow through different radio communication system types and how the signaling information controls that flow of information.
- Describe the features of each radio communication system in terms of advantages and disadvantages.
- Explain the Trunked Radio System Concepts

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



ASTRO® 25 IV&D SYSTEM OVERVIEW

1.5 HRS AST1038

COURSE OVERVIEW

The ASTRO® 25 IV&D System Overview course will provide participants with knowledge and understanding of the ASTRO® 25 IV&D system. This course will address M, L and K Core systems. System architecture, components and features will be explained. In addition, RF and console sites and their architecture, features and components will be discussed. Finally, call processing for voice and mobile data applications will be covered, and an introduction to applications available in the ASTRO® 25 system will be provided.

TARGET AUDIENCE

Core Technicians, Site Technicians, Console Technicians, Core Managers.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Understand the general architecture of an ASTRO® 25 IV&D Radio System
- Understand key features of available in the ASTRO® 25 IV&D Radio System
- Understand the components of the ASTRO® 25 Zone Core
- Understand site components in the ASTRO® 25 system
- Understand the features, capabilities and components of the MCC7000 series dispatch consoles
- Understand concepts of Mobility and Call Processing in the ASTRO® 25
- Understand the applications for managing the ASTRO® 25 system

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



ASTRO® 25 ISSI 8000 / CSSI 8000 FEATURE OVERVIEW

2 HRS AST2005

COURSE OVERVIEW

The ISSI 8000 / CSSI 8000 Feature Overview self-paced course describes the optional Inter-RF Subsystem Interface available in an ASTRO® 25 IV&D System. It presents a description of the feature, its benefits and components, call processing scenarios, and an overview of the installation process.

TARGET AUDIENCE

System Managers, Technical System Managers, System Technicians, Application Users

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe the ISSI 8000 / CSSI 8000 feature
- Describe the components of the ISSI 8000 / CSSI 8000 feature
- Describe the communication scenarios if this feature is enabled
- Follow the installation and configuration process if this feature is added to an ASTRO® system

REQUISITE KNOWLEDGE

Completion of the following courses:

- ACT100E Bridging the Knowledge Gap - Technicians
- AST1038 ASTRO® 25 IV&D System Overview

PREREQUISITES

None

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 CUSTOMER ENTERPRISE NETWORK WORKSHOP

3 DAYS AST0072

COURSE OVERVIEW

This course describes the Customer Network Interface (CNI) between the Motorola ASTRO® 25 Radio Network Infrastructure (RNI) and certified Customer Enterprise Network (CEN) Architectures and discusses the protocols and infrastructure components that support the RNI-DMZ CEN and the Control Room CEN.

TARGET AUDIENCE

This course is intended to those who need to learn the characteristics and capabilities of ASTRO® 25 Customer Enterprise Networks - Technicians and Administrators who maintain or administer Customer Enterprise Networks within ASTRO® 25 Systems.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Discuss ASTRO® 25 certified architectures used to support the interface between the Radio Network Infrastructure and the Customer Enterprise Network.
- Understand how to administer and configure FortiGate firewall objects and policies to support the CNI.
- Discuss NAT and how Network Address Translation is used to support the CNI.
- Understand Layer 2 and Layer 3 network protocols used to support the CNI.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



STANDALONE GTR 8000 CONVENTIONAL BASE RADIO

2 DAYS AST2006

COURSE OVERVIEW

This course is designed to give the participants the ability to align, troubleshoot and repair the Standalone GTR 8000 Base Station/Repeater to Motorola Solutions recommended service levels. Emphasis is placed on the use of Configuration Service Software (CSS) and its role in configuration, maintenance, diagnostics, alignments, and optimization of the Standalone GTR 8000 Base Radio/ Repeater.

TARGET AUDIENCE

Maintenance Technicians

COURSE OBJECTIVES

Upon completing this course, the participant will be able to:

- Understand basic concepts of the various radio systems supported by the GTR 8000 Conventional Base Radio
- Identify the equipment modules of the GTR 8000 Conventional Base Radio
- Operate and perform routine maintenance on the GTR 8000 Conventional Base Radio
- Understand basic operational theory of GTR 8000 Conventional Base Radio components
- Configure the GTR 8000 Conventional Base Radio using Configuration Service Software (CSS)
- Identify the different backplane connections on the GTR 8000 Conventional Base Radio
- Perform calibration and alignment adjustments for the GTR 8000 Conventional Base Radio
- Troubleshoot problems and identify/replace faulty modules in the GTR 8000 Conventional Base Radio

REQUISITE KNOWLEDGE

General RF Knowledge and Skills Basic Knowledge of Two-Way Radio systems

PREREQUISITES

None



ASTRO® 25 DOMAIN CONTROLLER ADMINISTRATION

3 DAYS AST2015

COURSE OVERVIEW

This workshop covers the administrator and management functions in the ASTRO® 25 Domain Controller and how these functions affect both users and computers in the ASTRO® 25 system. Learning activities in this course focus on how to use the Domain Controllers to authenticate, administer, and authorize users and devices in the ASTRO® 25 System. Group Policies and Organizational Units, RADIUS, and DNS structure will be addressed during this course.

TARGET AUDIENCE

System Administrators, Technical System Administrators and System Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Understand the Domain Controller server platform
- Understand the DNS Hierarchy in the ASTRO® 25 system
- Implement RADIUS authentication in applicable devices in an ASTRO® 25 system.
- Use Active Directory to control users in the ASTRO® 25 system.
- Understand Group Policy objects and how they impact users in the ASTRO® 25 Domain.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- AST1038 ASTRO® 25 IV&D System Overview

PREREQUISITES

None

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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**ASTRO® 25 IV&D
RADIO AUTHENTICATION**

2 DAYS AST2038

COURSE OVERVIEW

This course describes the Radio Authentication feature and defines the HW/SW components in the Radio Authentication system. In addition the course describes the Radio Authentication process, discusses the various Keys uses in Radio Authentication. The students will understand how to provision and distribute relevant Keys using the AuC Client GUI to access the AuC Server. Students will understand how to enable Radio Authentication in the System via the AuC Client and how to configure the KVL 4000 for Radio Authentication and manage subscribers from the AuC Client.

TARGET AUDIENCE

Customer Administrators or Technicians.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe Radio Authentication features and HW/SW components
- Describe the Radio Authentication process
- Discuss the Keys used in Radio Authentication
- Provision and Distribute relevant Keys
- Describe the AuC Client GUI
- Enable Radio Authentication in the System
- Configure the KVL 4000 for Radio Authentication
- Manage Subscribers from the AuC Client
- Discuss Radio Authentication functionality in a DSR system

REQUISITE KNOWLEDGE

Completion of the following course or equivalent experience:

- Radio System Administration or equivalent knowledge of the Provisioning Manager, ZoneWatch, Historical Reports, ATIA Log Viewer, Unified Event Manager (UEM), Unified Network Configurator (UNC).

PREREQUISITES

Access to customer ASTRO® 25 Radio System, AuC Server/Client is required. Customer to provide working Motorola Solutions' portable radio(s) capable of placing calls on the System, access to working AuC client/server along with admin login credentials, access to a working KVL4000 key loader that can upload keys to the AuC server.



**ASTRO® 25 IV&D
RADIO SYSTEM
ADMINISTRATOR
WORKSHOP**

4.5 DAYS AST4102

COURSE OVERVIEW

This workshop covers administrator functions for an ASTRO® 25 Integrated Voice and Data (IV&D) System. Learning activities in this course focus on how to use the different ASTRO® 25 IV&D System Management applications. Participants will be provided with an opportunity to discuss how to structure their organization and personnel for optimal ASTRO® 25 IV&D system use.

TARGET AUDIENCE

System Administrators, Technical System Administrators, System Technicians, and other Application Users.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe the relationship between radio programming, console administration and system management, and the impact of this relationship on system planning.
- List the network management tools applicable at each phase of the system life cycle.
- Identify the advantages and disadvantages of options available for the configuration of system infrastructure and user parameters.
- Use the report and real-time data to monitor performance and make adjustments necessary to maintain acceptable system performance levels.

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- AST1038 ASTRO® 25 IV&D System Overview
- ACT101E Bridging the Knowledge Gap – System Administrators
- NST762 Networking Essentials in Communication Equipment
- AST4104 ASTRO® 25 Applied Networking

PREREQUISITES

None



**ASTRO® 25 IV&D
SYSTEM CORE WORKSHOP**

4.5 DAYS AST4103

COURSE OVERVIEW

The ASTRO® 25 IV&D with ASTRO® 25 System Core course teaches advanced troubleshooting skills and best practices for the Trunked Large Systems. The course also focuses on gathering and analyzing system information to implement appropriate action(s) that return a system to full operational status.

TARGET AUDIENCE

ASTRO® 25 System Core Master Site Technicians

COURSE OBJECTIVES

After completing this course, the participant will be able to:

- Describe the ASTRO® 25 System architecture.
- Identify the functional and radio subsystems that comprise the ASTRO® 25 System.
- Explain and discuss call flow and data flow through Large System Core devices and their subsystems.
- Perform recommended routine maintenance procedures for the ASTRO® 25 Large System Core.
- Utilize the troubleshooting tools to diagnose a fault and restore the Large System Core to the level of the Motorola-supported service strategy.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- Bridging the Knowledge Gap (ACT100E or ACT101E)
- Networking Essentials in Communication Equipment (NST762)
- ASTRO® 25 Systems Applied Networking (AST4104)
- ASTRO® 25 IV&D System Overview (AST1038)

PREREQUISITES

None

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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ASTRO® 25 SYSTEMS APPLIED NETWORKING

4 DAYS AST4104

COURSE OVERVIEW

The ASTRO 25 Systems Applied Networking course provides technicians with the necessary networking information required for understanding the network components installed in modern Motorola communications systems. The course includes familiarization with basic networking concepts, and the networking components deployed in the ASTRO 25 System.

TARGET AUDIENCE

Technical System Managers and Technicians

COURSE OBJECTIVES

After completing this course, the participant will be able to:

- Describe ASTRO® 25 topologies.
- Describe ASTRO® 25 traffic flows. Describe TCP/IP addressing in an ASTRO® 25 network.
- Configure switches and verify switch operation.
- Configure routers and verify router operation.
- Compare Motorola GGM 8000 routers and Juniper routers.
- Perform common maintenance tasks for switches and routers.
- Describe IP Multicast addresses and talkgroup operation.
- Describe network management functions and applications.
- Describe Information Assurance in ASTRO® 25.
- Describe extended topologies such as the Data Subsystem and ISSI.

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- Networking Essentials in Motorola Communications Systems (NST762)

PREREQUISITES

None



ASTRO® 25 IV&D SECURE COMMUNICATIONS WORKSHOP

5 DAYS AST4207

COURSE OVERVIEW

This workshop describes planning, installation, configuration, operations, and troubleshooting of Secure Communications within the ASTRO® 25 IV&D System.

TARGET AUDIENCE

System Technicians, System Administrators, Technical System Managers

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Plan, organize, and implement Secure Communications in an ASTRO® 25 IV&D system.
- Install and configure a Key Management Facility (KMF) system and related components.
- Demonstrate centralized key management using Over-the-Air-Rekeying (OTAR).
- Perform System Administrator functions using the KMF server and KMF client.
- Troubleshoot installation and configuration problems for the KMF server, KMF client, and KMF database.

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- ACT100E Bridging the Knowledge Gap - Technicians
- NST762 Networking Essentials in Communication Equipment

PREREQUISITES

None



ASTRO® 25 IV&D GTR 8000 REPEATER SITE WORKSHOP

3 DAYS AST4208

COURSE OVERVIEW

This workshop describes the components in the ASTRO® 25 IV&D System Repeater Site with GTR 8000 expandable site subsystem. This course also presents how the GTR 8000 expandable site subsystem operates and explains the tools and methods available for troubleshooting components within the subsystem.

TARGET AUDIENCE

GTR 8000 Site Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe the ASTRO® 25 IV&D Repeater Site with GTR 8000 Expandable Site Subsystem configurations and components.
- Identify the GCP 8000 Site Controller functions and configuration requirements.
- Describe the connections and interfaces to the GCP 8000.
- Diagnose and troubleshoot the GCP 8000.
- Describe the functionality of the GTR 8000 Expandable Site Subsystem.
- Configure and troubleshoot the ASTRO® 25 Repeater Site with GTR 8000 Expandable Site Subsystem.
- Configure and troubleshoot the Network Transport subsystem.

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- AST1038 ASTRO® 25 IV&D System Overview
- ACT101E Bridging the Knowledge Gap - Technicians
- NST762 Networking Essentials in Communication Equipment
- AST4104 ASTRO®25 Applied Networking


PREREQUISITES

None

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**ASTRO® 25 IV&D
IP BASED DIGITAL
SIMULCAST WORKSHOP**

3 DAYS AST4217

COURSE OVERVIEW

The ASTRO® 25 IV&D IP Based Digital Simulcast workshop provides an understanding of the components that comprise the ASTRO® 25 IV&D IP Simulcast subsystem, and how they operate in conjunction with each other. The workshop also explains the tools and methods available for troubleshooting components within the IP Based Simulcast subsystem.

TARGET AUDIENCE

Simulcast Site Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Recognize the flow of message and control data within an ASTRO® 25 IV&D IP Digital Simulcast subsystem
- Identify the major components and connections within an ASTRO® 25 IV&D IP Digital Simulcast subsystem prime and remote sites
- Recognize how calls are processed within an ASTRO® 25 IV&D IP Digital Simulcast subsystem
- Perform maintenance and troubleshooting of select components in an ASTRO® 25 IV&D IP Digital Simulcast subsystem

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- AST1038 ASTRO® 25 IV&D System Overview
- ACT100E Bridging the Knowledge Gap for ASTRO® 25 – Technician
- NST762 Networking Essentials in Communication Equipment
- AST4104 ASTRO® 25 Systems Applied Networking

PREREQUISITES

None



**ASTRO® 25 IV&D
CONVENTIONAL CORE
WITH CONFIGURATION
MANAGER WORKSHOP**

3 DAYS AST4410

COURSE OVERVIEW

The ASTRO® 25 IV&D Conventional Core with Configuration Manager course teaches advanced troubleshooting skills and best practices for the ASTRO® 25 IV&D Conventional Core with Configuration Manager. It also focuses on administrator functions and how to use the ASTRO® 25 IV&D Configuration Manager applications. A technical introduction to the MCC 7500 as used within the ASTRO® 25 IV&D Conventional Core with Configuration Manager, including some administrator functions, is also provided. Learning activities focus on gathering and analyzing system information to implement the appropriate actions that return a system to full operational status.

TARGET AUDIENCE

Master Site Technicians, System Administrators, Technical System Administrators, System Technicians, and other Application Users

COURSE OBJECTIVES

After completing this course, the participant will be able to:

- Understand the key physical and functional characteristics of the ASTRO® 25 Conventional Core with Configuration Manager system.
- Perform tasks necessary to install the ASTRO® 25 Conventional Core with Configuration Manager system components.
- Perform configuration steps for the ASTRO® 25 Conventional Core with Configuration Manager system components.
- Understand the available maintenance tools and indicators in the ASTRO® 25 Conventional Core with Configuration Manager system.


REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- ACT101E Bridging the Knowledge Gap – System Administrators
- NST762 Networking Essentials in Motorola Communications Equipment
- AST4104 ASTRO® 25 System Applied Networking
- AST1038 ASTRO® 25 IV&D System Overview

PREREQUISITES

None



**ASTRO® 25 IV&D
CONVENTIONAL RF
SITE WORKSHOP**

3 DAYS AST4440

COURSE OVERVIEW

The ASTRO® 25 IV&D Conventional RF Site workshop describes the components in the different ASTRO® 25 IV&D Conventional RF Sites topologies. This course also presents how the different ASTRO® 25 IV&D Conventional RF Sites topologies operate and explains the tools and methods available for troubleshooting components within the different ASTRO® 25 IV&D Conventional RF Sites topologies.

TARGET AUDIENCE

Site Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Understand key physical and functional characteristics of conventional site.
- Perform tasks necessary to install conventional site components.
- Perform configuration steps for conventional site components.
- Understand available maintenance tools and indicators in conventional site

REQUISITE KNOWLEDGE

Completion of the following courses or equivalent knowledge:

- ABridging the Knowledge Gap – System Administrators (ACT101)
- Networking Essentials in Motorola Communications Equipment (NST762)
- ASTRO® 25 System Applied Networking (AST4104)
- ASTRO® 25 IV&D System Overview (AST1038)

PREREQUISITES

None

RADIO SOLUTIONS ASTRO® 25 IV&D SYSTEMS

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MCC 7000 SERIES DISPATCH CONSOLES WORKSHOP

4.5 DAYS CON012

COURSE OVERVIEW

This course familiarizes participants in installation, configuration, management and repair of MCC 7500(e) Dispatch Consoles AUX I/O servers, Conventional Channel Gateways, and other optional features. The focus is on a detailed discussion of console hardware and hands-on activities with the installation and configuration of the MCC 7500(e) Dispatch Consoles.

TARGET AUDIENCE

System Administrators, Console Technicians

COURSE OBJECTIVES

After completing this course, the participant will be able to:

- Understand key physical and functional characteristics of MCC 7500(e) Dispatch Consoles.
- Understand physical installation requirements of MCC 7500(e) Dispatch Consoles.
- Perform tasks necessary to install MCC 7500(e) Dispatch Consoles components.
- Perform configuration steps for MCC 7500(e) Dispatch Consoles components.
- Understand available maintenance tools and indicators in MCC 7500(e) Dispatch Consoles.
- Troubleshoot MCC 7500(e) Dispatch Consoles components to the Motorola Solutions recommended service level.
- Perform tasks necessary to provision users for MCC 7500(e) Dispatch Consoles.
- Configure the MCC 7500(e) Dispatch Consoles interface.
- Perform required administrative activities for MCC 7500(e) Dispatch Consoles.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- Bridging the Knowledge Gap (ACT100E or ACT101E)
- Networking Essentials in Motorola Communications Equipment (NST762)
- ASTRO® 25 Systems Applied Networking (AST4104)

PREREQUISITES

- AST1038 ASTRO® 25 IV&D System Overview



ASTRO® 25 SYSTEMS FLEETMAPPING

36 HRS RDS1017

COURSE OVERVIEW

This workshop addresses topics necessary for the effective planning and mapping of an ASTRO® 25 IV&D radio system. During this course, the participants will learn about ASTRO® 25 features, capabilities, and restrictions in order to effectively plan and prepare for a new or upgraded ASTRO® 25 system.

TARGET AUDIENCE

This course is intended for technical support staff who are involved in planning and mapping of an ASTRO® 25 IV&D radio system.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Discuss what a fleetmap is and why one is needed.
- Discuss the methodologies used to configure radio users and groups with the goal of optimizing the system resources.
- Describe the content to assist with fleetmapping decisions.
- Discuss frequency band plan organization and management.
- Describe basic planning requirements and complete a simple Fleetmap information template.
- Complete worksheets required to create a Fleetmap based on sample operational requirement information.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



MCD 5000 TECHNICAL WORKSHOP

3 DAYS RDS1022

COURSE OVERVIEW

This workshop supports those that install, configure, or support the MCD 5000 Deskset. This three day training course will cover installation procedures for the MCD5000 Deskset, Radio Gateway Unit (RGU), and connectivity to different station types. Configuration and programming of the MCD5000 and its supporting equipment will be covered through discussion and hands-on lab activities. Troubleshooting and maintenance techniques will be addressed to the Motorola Solutions recommended service level.

TARGET AUDIENCE

MCD 5000 Technicians

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Identify the MCD 5000 System components and functions.
- Install MCD 5000 Deskset.
- Install Radio Gateway Units.
- Configure MCD 5000 subcomponents.
- Troubleshoot the MCD 5000 System to Motorola Solutions recommended service levels.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- NST021 Communication Systems Concepts

PREREQUISITES

None

APX™ SUBSCRIBER COURSES

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APX™ TECHNICAL SUBSCRIBER ACADEMY (APX010)	41
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APX™ CPS PROGRAMMING AND TEMPLATE BUILDING

2 DAYS APX7001

COURSE OVERVIEW

The APX CPS Programming and Template Building course provides communications management personnel and technicians with the knowledge and training necessary to build templates and program the APX family of radios in the most efficient way possible.

TARGET AUDIENCE

You should attend this training course if you are a radio technician or system manager who needs to:

- Perform APX radios programming.
- Gain knowledge of the APX CPS navigation, tools, options and features.
- Have a better understanding of APX subscriber operating in Conventional, Single Site trunking, Simulcast, SmartZone or ASTRO 25 IV&D TDMA and ASTRO 25 IV&D x2.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Navigate through the user interface of the APX™ Customer Programming Software (CPS).
- Build the APX family of programming templates using the APX™ CPS programming software.
- Program the specific conventional and trunking parameters related to the various system types in which the radios will operate.
- Program the radios using typical APX™ CPS features and functions, such as cloning and drag and drop operations.
- Use additional APX™ CPS related functions such as codeplug comparison, radio flashing, Advance System Key Administrator, and codeplug merging.

REQUISITE KNOWLEDGE

Knowledge of the basic features and options of two-way radios and the basic concepts of trunking.

PREREQUISITES

None



APX™ TECHNICAL SUBSCRIBER ACADEMY

4.5 DAYS APX010

COURSE OVERVIEW

Participants will learn the capabilities, features, and functions of the APX™ family of radios as well as how to correctly complete performance checks, radio alignments, maintenance, and troubleshooting. This Academy will also focus on a Level 2 (block-level) theory of operation for the APX™ family of radios and provide a review of APX™ CPS and Radio Management programming. In addition to the lecture, large amounts of hands-on with scenario-based lab work will be used to reinforce knowledge transfer.

TARGET AUDIENCE

This course is intended for who would like to get familiar with the features, operation principles and troubleshooting steps of the APX family of radios.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Distinguish between the features and specifications of APX Portable and Mobile radios
- Verify the correct operation of the various radios within the APX family of subscribers by completing Performance Checks and Alignment procedures
- Maintain and troubleshoot radios within the APX family of subscribers


REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- NST021 Communication Systems Concepts
- APX7001 APX CPS Programming and Template Building Overview

PREREQUISITES

None



APX™ RADIO MANAGEMENT OVERVIEW

1 HR AST2003

COURSE OVERVIEW

This course provides an overview of the features and functions of the APX series Radio Management software. Participants will learn what the Radio Management software is designed to do, and will also learn how to use it to program large and small groups of subscribers.

TARGET AUDIENCE

Technicians and System Managers needing an understanding of the basics of the Radio Management application as well as database and fleet management.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Identify the solution that Radio Management provides
- Differentiate between All-in-One PC needs and Distributed Use needs regarding Radio Management
- Locate the APX Radio Management
- Navigate the APX Radio Management screens
- Populate the database
- Schedule a Read job
- Manage multiple APX radios simultaneously
- Create, modify, and select programming templates
- Schedule a Write job
- Conduct a search
- Search, sort, and group radios
- Sort and manage information in the Table view
- Identify the function of the Job view

REQUISITE KNOWLEDGE

None


PREREQUISITES

None

RADIO SOLUTIONS SUBSCRIBERS

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com



**APX™ RADIO
MANAGEMENT WORKSHOP**

2.5 DAYS RDS2017

COURSE OVERVIEW

Participants will learn the capabilities, features, and functions of the APX Radio Management Suite. In addition, the course will contain networking labs and Radio Management labs that will focus on installation, configuration, and operation using wired, Wi-Fi, and POP25 updates to APX Subscriber radios in both a LAN and WAN environment.

TARGET AUDIENCE

Radio Technicians, System Managers, Radio Programmers

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Describe the APX Radio Management Suite operations and required software and hardware components
- Describe all deployment options for APX Radio Management Suite
- Configure a basic APX Radio Management system using a single PC, multiple PCs on a LAN, and multiple PCs on a WAN.
- Troubleshoot common APX Radio Management installation, configuration, and operation issues
- Use Best Practices to implement and optimize Radio Management Performance.


REQUISITE KNOWLEDGE

Completion of the following courses or equivalent experience:

- APX7001 APX CPS Programming and Template Building Overview

PREREQUISITES

None



**APX™ NEXT
RADIOCENTRAL OVERVIEW**

1 HR AST4004

COURSE OVERVIEW

This course provides an introduction to using the MyView Portal and the RadioCentral Client to manage the basic setup and configuration of the features for your APX NEXT devices.

TARGET AUDIENCE

This course is intended for individuals who need to configure, maintain, and monitor the APX NEXT Radio.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Navigate through the RadioCentral Client to find the editing tools and standard views.
- Navigate through the MyView Portal to find the editing and administrative tools.
- Successfully complete the configuration workflows covered in this course.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



**APX™ NEXT
RADIOCENTRAL™
WORKSHOP**

1.5 DAYS AST4005

COURSE OVERVIEW

This is a follow-up workshop to AST4004 APX™ NEXT RadioCentral Overview. In this workshop, you will have hands-on experience of using the RadioCentral application to set up and program the APX™ NEXT radios.

TARGET AUDIENCE

System Managers and Technical staff responsible for managing APX NEXT devices.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Describe the MyView portal and RadioCentral solutions.
- Manage agencies, user access, and devices through MyView portal.
- Navigate through the RadioCentral client to perform programming operations.
- Program the APX NEXT radio for field operation.

REQUISITE KNOWLEDGE

None

PREREQUISITES

AST4004 APX™ NEXT RadioCentral Overview

RADIO SOLUTIONS SUBSCRIBERS

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

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**HOW TO CLEAN YOUR
APX PORTABLE RADIO**

0.25 HRS AST0037

COURSE OVERVIEW

The Portable Radio is the critical life connection for many Public Safety responders in the moments that matter. This video covers the procedures that users can take, to properly clean and care for their radios and keep them operating reliably for many years.

TARGET AUDIENCE

This course is intended for those who would like to learn how to clean an APX radio with the proper materials and procedures.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Describe the materials needed to properly clean a portable radio
- Describe the steps and procedures to properly clean a portable radio
- Clean a Portable Radio using recommended procedures.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



**APX™ NEXT
OVERVIEW**

1 HR AST4002

COURSE OVERVIEW

This course provides an overview of the features and capabilities of the APX NEXT™ series radios. We will help you understand how they work, when they are useful, and how they impact your day-to-day tasks.

TARGET AUDIENCE

This course is intended for individuals who need an overview of the APX NEXT series radios.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Describe the functions and capabilities of the APX NEXT series radios.
- List the features supported on the APX NEXT series radios.
- Describe the new application services available on the APX NEXT series radios.

REQUISITE KNOWLEDGE

None

PREREQUISITES

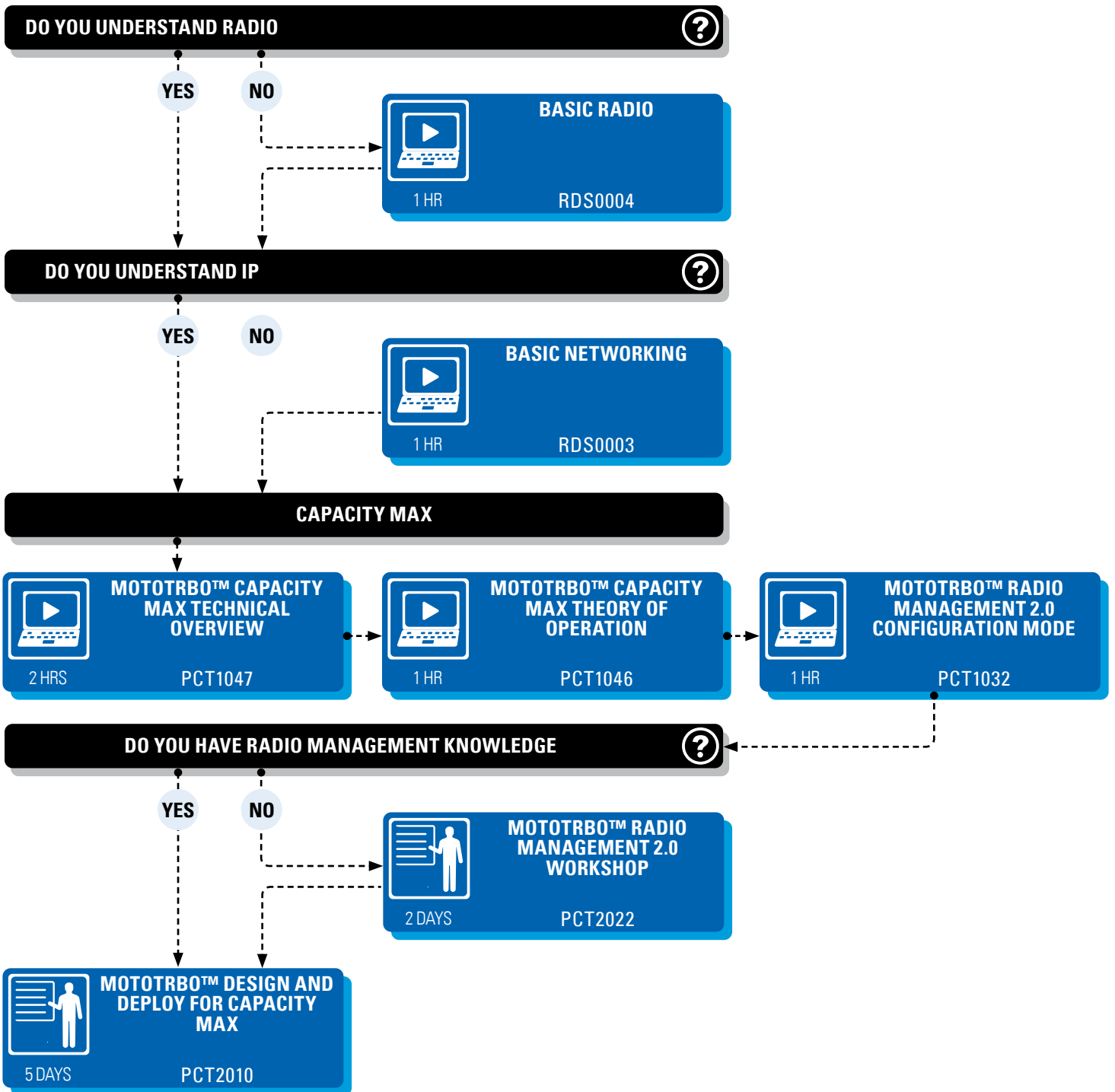
None

MOTOTRBO™ COURSES

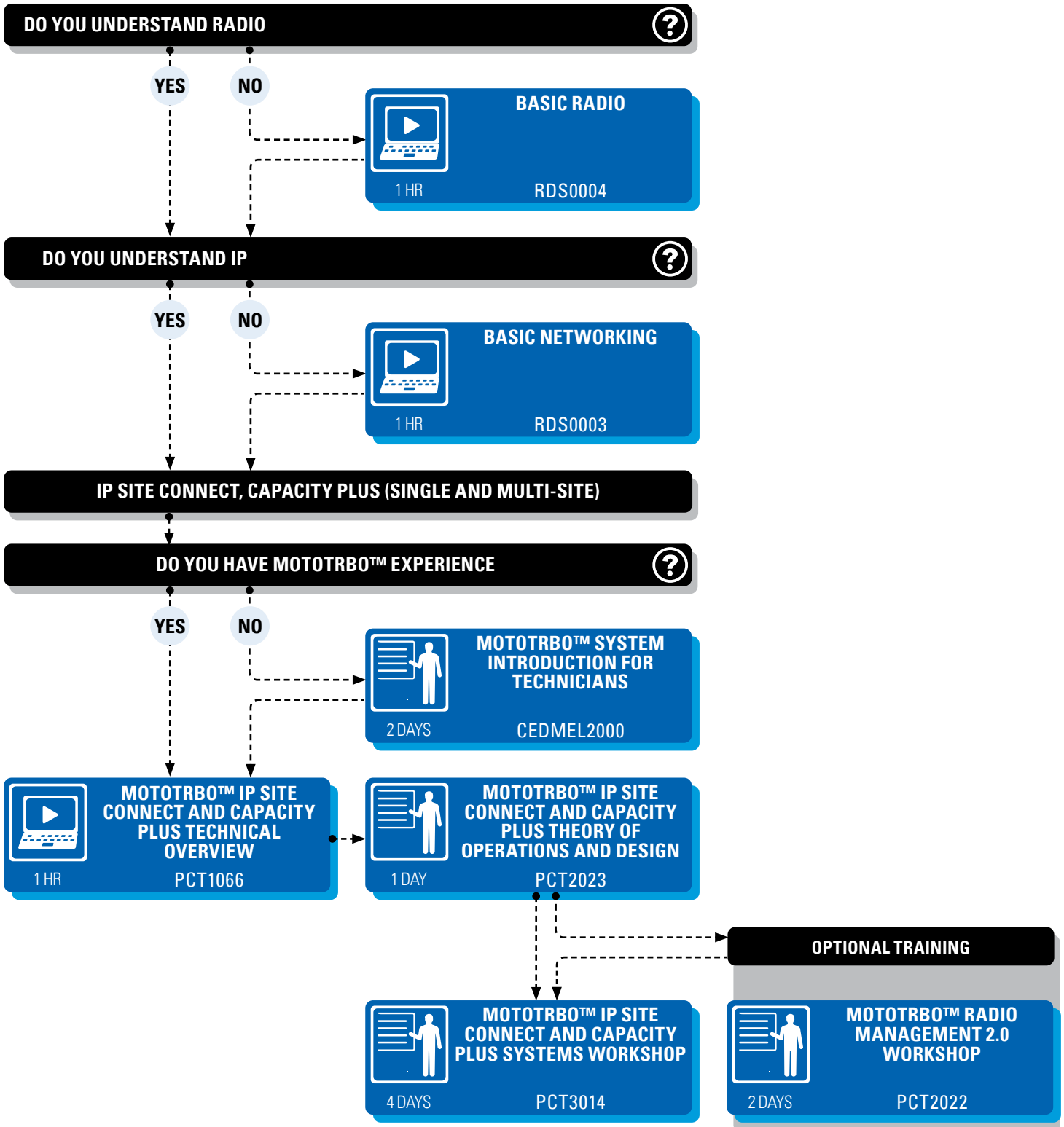
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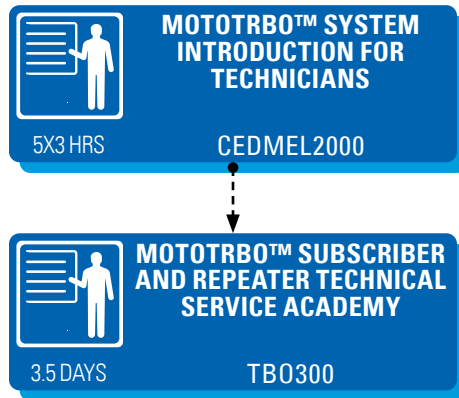
MOTOTRBO™ TECHNICAL CAPACITY MAX TRAINING CURRICULUM



MOTOTRBO™ TECHNICAL IP SITE CONNECT, CAPACITY PLUS TRAINING CURRICULUM



MOTOTRBO™ TECHNICAL TRAINING CURRICULUM FOR SUBSCRIBER/REPEATER MAINTENANCE TECHNICIAN



RADIO SOLUTIONS MOTOTRBO™

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MOTOTRBO™ SYSTEM INTRODUCTION FOR TECHNICIANS

5X3 HRS CEDMEL2000

COURSE OVERVIEW

This is an introductory course to the MOTOTRBO system theory of operation, key components and topologies. MOTOTRBO System Introduction for Technicians provides all the basic information about common MOTOTRBO features and capabilities, along with system design and deploy principles. Upon successfully completing this course, individuals should be ready to take the more advanced Design and Deploy courses for IP Site Connect, Capacity Plus (Multi-Site and Single Site), Capacity Max and/ or Connect Plus.

TARGET AUDIENCE

Professionals responsible for selling, designing, configuring, deploying, or maintaining MOTOTRBO Digital Radio Systems.

COURSE OBJECTIVES

Upon completion of this course, you will be able to:

- Correctly categorize the different components available to build your MOTOTRBO system.
- Accurately explain the functional technology that MOTOTRBO systems employ
- Propose the MOTOTRBO topology that best fits the user requirements.
- Correctly describe MOTOTRBO's digital and analog features.
- Analyze the various data applications' capabilities and everyday uses within the MOTOTRBO systems.
- Refer to system and channel capacity considerations during system planning.
- Refer to MOTOTRBO IP network design considerations during system planning.
- Design a fleetmap in accordance with organizational requirements and resources.
- Select the right MOTOTRBO tool for your needs.
- Successfully purchase, register, and activate premium radio features.

REQUISITE KNOWLEDGE

Completion of the following optional courses or equivalent knowledge:

- RDS0003 Basic Networking
- RDS0002 Basic RF
- RDS0004 Basic Radio
- AAE1402 Professional and Commercial Radios (PCR) Portfolio Overview

PREREQUISITES

None



MOTOTRBO™ RADIO MANAGEMENT 2.0 CONFIGURATION MODE

1 HR PCT1032

COURSE OVERVIEW

This self-paced course is a basic tutorial of Radio Management (RM) 2.0 Configuration Mode. A set of short videos present installation and deployment of RM components, explain the concepts of sets and configurations, and demonstrate the user how to navigate through RM Client views and functionalities. The course also covers migration from template to configuration mode, backup and restores procedures, as well as user and machine authorization.

TARGET AUDIENCE

Professionals responsible for configuring, deploying, or maintaining MOTOTRBO™ radios and repeaters.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Explain the purpose of that Radio Management Configuration (RM) Mode.
- Explain the concept of sets and configurations.
- Set up Radio Management 2.0 for the first time.
- Name and navigate through major RM Client views.
- Perform basic RM Configuration Client operations: populate and manage radio database, edit sets and configurations, etc.
- Perform Server Utility operations.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



MOTOTRBO™ RADIO MANAGEMENT WORKSHOP

2 DAYS PCT2022

COURSE OVERVIEW

The MOTOTRBO™ Radio Management 2.0 Workshop course provides technicians with the necessary information and practice to use the MOTOTRBO™ Radio Management 2.0 programming tool effectively.

TARGET AUDIENCE

System Managers and Technicians

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Deploy and use RM 2.0 in a variety of real-world scenarios.
- Create and maintain configurations for basic MOTOTRBO™ Configurations (Connect Plus and Capacity Max excluded).
- Utilize Wi-Fi programming within RM 2.0.
- Use the RM Import and Export feature for database population.
- Convert existing radio templates and codeplugs to RM 2.0 Configurations.
- License and activate Radio and Application features.
- Use advanced features such as Data Mining.
- Use RM 2.0 to ease mass-deployments of subscribers.

REQUISITE KNOWLEDGE

Networking Essentials or Network + Certification.

- A high-level working knowledge of IP networking is important.

PREREQUISITES

PCT1032 MOTOTRBO™ Radio Management 2.0 Configuration Mode

RADIO SOLUTIONS MOTOTRBO™

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at: (800) 247-2346, option 4 or portal.support@motorolasolutions.com



MOTOTRBO™ CPS 2.0 PROGRAMMING
1 HR PCT0115

COURSE OVERVIEW

This course is an introduction to MOTOTRBO™ Customer Programming Software (CPS) 2.0. You will learn how to install and use CPS 2.0 to program your equipment.

TARGET AUDIENCE

Communication System Technicians, Technical Support Personnel, Service Technicians and Radio Programmers.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Explain the purpose of CPS 2.0.
- Describe the key workflows of CPS 2.0.
- Update a codeplug using CPS 2.0 for specific system types.
- Demonstrate a good level of knowledge for the processes of managing licenses in CPS 2.0.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



PROFESSIONAL AND COMMERCIAL RADIOS (PCR) PORTFOLIO OVERVIEW (NA)
1 HR AAE1402N

COURSE OVERVIEW

The PCR Portfolio Overview provides an overview of all professional and commercial tier radios. It covers available analog and digital radio models as well as system configurations, repeaters, controllers, software applications, accessories and services.

TARGET AUDIENCE

All sales and technical staff who require an introductory overview to Professional and Commercial Radio (PCR) systems.

COURSE OBJECTIVES

After completing this course, the student will be able to:

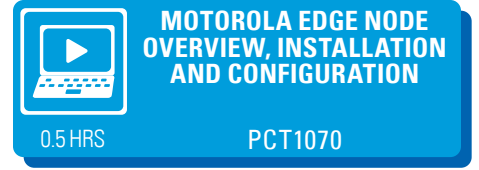
- List all system types and their key features.
- Identify analog and digital portable and mobile radio solutions.
- Name all the accessory categories.
- List major applications available for Motorola Solutions radios.
- Identify the services available.
- Refer to additional information.

REQUISITE KNOWLEDGE

General two-way radio knowledge

PREREQUISITES

None



MOTOROLA EDGE NODE OVERVIEW, INSTALLATION AND CONFIGURATION
0.5 HRS PCT1070

COURSE OVERVIEW

This course is designed to help you understand the purpose and function of the Motorola Edge Node. It describes the installation and configuration process for the Motorola Edge Node product. Basic system troubleshooting and maintenance for the Motorola Edge Node is also covered in this course.

TARGET AUDIENCE

Professionals responsible for designing, configuring, deploying, or maintaining MOTOTRBO radio systems. This would include, but is not limited to: communication system technicians, technical system managers, technical support personnel, and service technicians.

COURSE OBJECTIVES

Upon completion of this course, the participant will be able to:

- Explain the purpose and function of the Motorola Edge Node
- Explain how the Motorola Edge Node connects a MOTOTRBO radio system to cloud services
- Understand how to install the Motorola Edge Node
- Understand how to configure the Motorola Edge Node
- Understand basic troubleshooting techniques for Motorola Edge Node installation and configuration
- Understand how to report any operational issues with a Motorola Edge Node to Motorola technical support

REQUISITE KNOWLEDGE

Basic two-way radio knowledge

PREREQUISITES

None

RADIO SOLUTIONS MOTOTRBO™

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

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(800) 247-2346, option 4 or portal.support@motorolasolutions.com



**MOTOTRBO™ SUBSCRIBER
AND REPEATER TECHNICAL
SERVICE ACADEMY**

3.5 DAYS TBO300

COURSE OVERVIEW

Participants will learn the capabilities, features and functions of the MOTOTRBO™ family of radios and repeaters as well as how to correctly complete performance checks, radio alignments, disassembly/reassembly, maintenance, and troubleshooting. This Academy will also focus on the detailed theory of operation. In addition to lecture, large amounts of hands on, scenario based lab work will be used to reinforce knowledge transfer. This Academy will cover in detail different models within the MOTOTRBO™ family of radios and repeaters.

TARGET AUDIENCE

Radio Technicians

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Distinguish between the features and specifications of the MOTOTRBO™ portable and mobile radios and repeaters
- Verify the correct operations of the MOTOTRBO™ radios and repeaters by completing Performance Checks and Alignment procedures
- Maintain and troubleshoot MOTOTRBO™ radios and repeaters
- Disassemble and reassemble the radios using the documented procedures

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- CEDMEL2000 Introduction to MOTOTRBO™ Systems for Technicians

PREREQUISITES

None



**MOTOTRBO™ CAPACITY
MAX TECHNICAL
OVERVIEW**

2 HRS PCT1047

COURSE OVERVIEW

This self-study course is designed to help you learn the fundamentals of Capacity Max. Whether you have a sales or technical background, this training will give you the information that you need to gain a basic understanding of Capacity Max. Begin by exploring the DMR standard and Capacity Max's positioning within the MOTOTRBO™ portfolio of systems.

Learn about the different hardware and software components that make up a Capacity Max system and gain an understanding of its logical and physical topology. Features, redundancy, design tools and warranty will also be addressed.

TARGET AUDIENCE

Professionals responsible for selling, designing, configuring, deploying, or maintaining MOTOTRBO™ radio systems.

COURSE OBJECTIVES

By the end of the course, you will be able to:


- Explain Digital Mobile Radio (DMR)
- Describe a basic Capacity Max system and where it fits in the MOTOTRBO™ Portfolio
- Describe the Capacity Max's system physical and logical topologies
- List the minimum hardware and software requirements for a Capacity Max system
- Distinguish the three different types of Capacity Max Operating Modes
- Identify the different features and license types available for a Capacity Max system

REQUISITE KNOWLEDGE

Basic Radio knowledge

PREREQUISITES

None



**MOTOTRBO™ CAPACITY
MAX THEORY OF
OPERATION**

1 HR PCT1046

COURSE OVERVIEW

This foundational self-study course is designed to help you understand the theory of how a Capacity Max system functions. It describes the life cycle of a call, which includes: call initiation, call queuing, call grant or rejection, call transmission(s), and call termination. This knowledge is important for system troubleshooting and maintenance purposes.

TARGET AUDIENCE

Professionals responsible for selling, designing, configuring, deploying, or maintaining MOTOTRBO™ radio systems.

COURSE OBJECTIVES

Upon completion of this course, you will be able to describe and explain the functions of:

- Control Channel
- Roaming
- Radio Registration
- Call Request
- Call Setup
- Busy Queue
- Channel Allocation
- Call Termination

REQUISITE KNOWLEDGE

Basic Radio knowledge

PREREQUISITES

PCT1047 MOTOTRBO™ Capacity Max Technical Overview

RADIO SOLUTIONS MOTOTRBO™

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at: (800) 247-2346, option 4 or portal.support@motorolasolutions.com



MOTOTRBO™ DESIGN AND DEPLOY FOR CAPACITY MAX

4.5 DAYS PCT2010

COURSE OVERVIEW

MOTOTRBO™ Capacity Max Design and Deploy begins by covering the design process for a Capacity Max Radio system. Participants will have the opportunity to practice designing and deploying a small scale, 2 Site/3 Channel, Capacity Max system in a safe classroom environment. This course will also cover how to configure Capacity Max using Radio Management 2.0 Configuration Mode.

TARGET AUDIENCE

This training is intended for professionals responsible for designing, configuring, or deploying MOTOTRBO™ radio systems.

COURSE OBJECTIVES

Upon completion of this course, you will be able to:

- Design a simple a 1-System 2 Site/3 Channel Capacity Max system
- Calculate Capacity Max capacity and bandwidth using a Case Scenario and System Design tools.
- Using Radio Management Configuration Mode, configure your radios and infrastructure.
- Deploy a 1-System 2 Site/3 Channel Capacity Max system.
- Using System Advisor, learn the fundamentals of troubleshooting and -maintaining a Capacity Max system.
- Execute Radio Management database backup and restore.
- Describe how to optimize a Capacity Max system.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- Understanding IP Network Addressing.
- Knowledge of RF Propagation modeling tools

PREREQUISITES

- PCT1047 MOTOTRBO™ Capacity Max Technical Overview
- PCT1046 MOTOTRBO™ Capacity Max Theory of Operation
- PCT1032 MOTOTRBO™ Radio Management 2.0 Configuration Mode



MOTOTRBO™ IP SITE CONNECT AND CAPACITY PLUS TECHNICAL OVERVIEW

1 HR PCT1066

COURSE OVERVIEW

This course is designed to help you understand the basics of a MOTOTRBO™ IP Site Connect and a MOTOTRBO™ Capacity Plus system. We'll begin by exploring their capabilities, features and positioning within the MOTOTRBO™ system solutions. You will also learn about the different system components and their general topology. The course will also review available MOTOTRBO™ services packages.

TARGET AUDIENCE

Professionals responsible for selling, designing, configuring, deploying, or maintaining MOTOTRBO™ radio systems.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe a MOTOTRBO™ IP Site Connect and Capacity Plus system.
- Explain the capabilities of the MOTOTRBO™ IP Site Connect and Capacity Plus system.
- Identify the MOTOTRBO™ IP Site Connect and Capacity Plus system components.
- Identify a MOTOTRBO™ IP Site Connect and Capacity Plus topology.
- Explain the difference in service plans between these systems.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- RDS0004 Basic Radio knowledge
- CEDMEL2000 MOTOTRBO™ Systems Introduction for Technicians

PREREQUISITES

None



MOTOTRBO™ IP SITE CONNECT AND CAPACITY PLUS THEORY OF OPERATIONS AND DESIGN

1 DAY PCT2023

COURSE OVERVIEW

This course is designed to help you gain a solid foundation and understanding of the theory behind how an IPSC and Capacity Plus system functions. It describes the life cycle of a call, repeater arbitration and Motorola's proprietary Enhanced Channel Access (ECA) feature. In addition, you will learn about the different IPSC and Capacity Plus system design options, fleetmapping and the MOTOTRBO System Design Tool.

TARGET AUDIENCE

Professionals responsible for designing and deploying MOTOTRBO™ radio systems.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Explain the call processing methods.
- Define repeater arbitration, Enhanced Channel Access (ECA) and All Start.
- List the considerations that must be taken into account when designing a MOTOTRBO™ IP Site Connect, Capacity Plus Single-Site or Capacity Plus Multi-Site system.
- Use the MOTOTRBO™ System Design Tool to size the system.
- Explain the purpose of Fleetmapping, how to conduct a fleetmap and its importance in system design.
- Illustrate possible system deployment topologies based on options selected.
- Describe the roaming process which helps to optimize User coverage.
- Describe Data capabilities.
- Understand the purpose and intent of voting repeaters and receivers.

REQUISITE KNOWLEDGE

Completion of the following course(s) or equivalent experience:

- RDS0004 Basic Radio knowledge
- CEDMEL2000 MOTOTRBO™ Systems Introduction for Technicians

PREREQUISITES

- PCT1066 MOTOTRBO™ IP Site Connect and Capacity Plus Technical Overview

RADIO SOLUTIONS MOTOTRBO™

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COURSE OVERVIEW

This course allows the participant to acquire in-depth hands-on experience in planning, configuring, and deploying the following MOTOTRBO™ systems: Digital Conventional, IP Site Connect, Capacity Plus Single and Multi-Site. Under the Instructor's guidance, participants will have the opportunity to practise designing and deploying the systems in a safe classroom environment. The course also provides information on the fleetmapping considerations together with exercises for each system type.

TARGET AUDIENCE

Professionals responsible for deploying MOTOTRBO™ radio systems.

COURSE OBJECTIVES

Upon completion of this course, the participant will be able to:

- Describe the MOTOTRBO™ IP Site Connect and Capacity Plus (Single and Multi-Site) systems, their capabilities, system components, and data application.
- Describe the MOTOTRBO™ IP Site Connect and Capacity Plus (Single and Multi-Site) theory of operation.
- Describe the available MOTOTRBO™ IP Site Connect and Capacity Plus (Single and Multi-Site) topologies.
- Take the steps needed to configure IP Site Connect and Capacity Plus (Single and Multi-Site) systems using MOTOTRBO™ CPS to program the subscribers and repeaters.

REQUISITE KNOWLEDGE

- Basic radio knowledge
- CEDMEL2000 MOTOTRBO™ System Introduction for Technicians

PREREQUISITES

- PCT1066 MOTOTRBO™ IP Site Connect and Capacity Plus Technical Overview
- PCT2023 MOTOTRBO™ IP Site Connect and Capacity Plus Theory of Operations and Design

PRIVATE BROADBAND COURSES

WAVE™ CERTIFIED INTEGRATION ENGINEER (AST3001) 54

CRITICAL CONNECT PORTAL TRAINING (PSA0032) 54

TLK 100 PORTABLE TWO-WAY RADIO: END-USER TRAINING (PTT0100N) 54

TLK 150 MOBILE TWO-WAY RADIO: END-USER TRAINING (PTT0150N) 54

WAVE PTX OVERVIEW (PTT0001N) 54

WAVE PTX ADMIN PORTAL: END-USER TRAINING (PTT0004N) 54

WAVE PTX R11.2 MOBILE APPLICATION: END-USER TRAINING (NA) (PTT0006N) 54



PRIVATE BROADBAND

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**WAVE™ CERTIFIED
INTEGRATION ENGINEER**

4.5 DAYS AST3001

COURSE OVERVIEW

The WAVE™ Certified Integration Engineer course provides instruction in designing, integrating, and troubleshooting WAVE™ systems. It also provides the groundwork for a basic understanding of how WAVE™ delivers a Radio-over-IP solution. The training scope covers WAVE™ integration to MOTOTRBO™, ASTRO®, and DIMETRA systems.

TARGET AUDIENCE

Sales/Systems Engineers who will design and implement WAVE™ solutions.

COURSE OBJECTIVES

After completing this course, the student will be able to:

- Understand and identify WAVE™ components.
- Install and configure the WAVE™ Management Server, Media Server, Proxy Server, Desktop Communicator, Advanced Desktop Communicator, and Mobile Communicators.
- Identify radio systems compatible with WAVE™ and list integration steps.
- Maintain and support a WAVE™ domain.

REQUISITE KNOWLEDGE

General knowledge of IP Networking, IP Telephony, Server-class Operating Systems.

PREREQUISITES


None

OTHER RELATED COURSES



**CRITICAL CONNECT PORTAL
TRAINING**

0.5 HRS PSA0032




**WAVE PTX ADMIN PORTAL:
END-USER TRAINING**

1 HR. PTT0004N



**TLK 150 MOBILE TWO-
WAY RADIO: END-USER
TRAINING**

1 HR PTT0150N



WAVE PTX OVERVIEW

0.5 HRS PTT0001N



**TLK 100 PORTABLE TWO-
WAY RADIO: END-USER
TRAINING**

1 HR PTT0100N



**WAVE PTX R11.2 MOBILE
APPLICATION: END-USER
TRAINING (NA)**

2.5 HRS PTT0006N

VESTA® SOLUTIONS COURSES














EMERGENCY CALL HANDLING: VESTA® SOLUTIONS

At Motorola Solutions, we know that one of the key components to keep people connected when it matters most is to provide the best training possible. This empowers our customers to use their VESTA® solutions to their fullest potential, maximizing their abilities to maintain operations, protect property and save lives.

Led by knowledgeable, dedicated product training specialists, our courses offer learners the possibility to get a firm understanding of their VESTA® solution.

Find below some of the online and live courses currently available. For more information, visit the LXP or contact us at:

- VESTA.trainingadmin@motorolasolutions.com – Training, Courseware
- VESTA.quotes@motorolasolutions.com – Sales, Quotes

 VESTA® ANALYTICS LITE 0.5 HRS VST0002	 VESTA® SMS ADMIN 0.5 HRS VST0003	 VESTA® SMS AGENT 0.5 HRS VST0004
 VESTA® MAP LOCAL AGENT 0.5 HRS VST0005	 VESTA® HEADS UP DISPLAY (HUD) 0.5 HRS VST0006	 VESTA® MAP LOCAL INSTALLATION, MAINTENANCE & UPGRADES 0.5 HRS VST0007
 DATA HUB FOR VESTA® MAP LOCAL 0.5 HRS VST0008	 VESTA® - ACTIVITY VIEW 0.5 HRS VST0009	 VESTA® ENHANCED IP PHONE ADMIN TRAINING 0.5 HRS VST0010
 VESTA® 9-1-1 TROUBLESHOOTING 4 DAYS VST0103	 VESTA® 911 INSTALLATION & MAINTENANCE/ADMIN (VIRTUAL TRAINING) 8 DAYS VST0105	 VESTA® SMS/TEXT TO 911 INSTALLATION & MAINTENANCE (VIRTUAL TRAINING) 3 DAYS VST0106
 911 MAINTENANCE & ADMINISTRATION (SMART HANDS) 4 DAYS VST0107		





CALLWORKS COURSES


In these changing times PSAPs face new challenges, beyond responding to a mobile society and adopting Next Generation technology. Amid and despite these challenges, CallWorks CallStation continues to ensure call takers gain the functionality they need to save seconds and save lives.

For more information, visit the CallWorks websites at motorolasolutions.com.

 **CALLWORKS ADMINISTRATION**
VST0501

 **CALLWORKS DECISIONSTATION**
VST0502

 **CALLWORKS CALLSTATION**
VST0503

 **EMERGENCY CALLWORKS OPERATIONS & MAINTENANCE**
VST0201

 **CALLWORKS CALLSTATION INTEGRATION W/RAPIDSOS**
VST0001



FLEX COURSES

FLEX CORRECTIONS ADMINISTRATION CERTIFICATION (GLNTP0101)	58
FLEX SYSTEM APPLICATION ADMINISTRATION CERTIFICATION (GLNTP0102)	58
FLEX DISPATCH ADMINISTRATION CERTIFICATION (GLNTP0103)	58
FLEX RECORDS ADMINISTRATION CERTIFICATION (RAC) CERTIFICATION (GLNTP0104)	59

FLEX

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com



**FLEX CORRECTIONS
ADMINISTRATION
CERTIFICATION**

5 DAYS GLNTP0101

CERTIFICATION OVERVIEW

This Certification is conducted as a two part series. It consists of Instructor-Led remote training focused on Corrections Administration and the functions related to Set-up and Management. The training is primarily hands-on with various lab activities. Lastly, students will take an online final exam. Upon completion of the course and passing the final exam, students who have enrolled in this certification will have earned the Flex Jail Corrections Administration Certification (CAC).

TARGET AUDIENCE

Candidates for the Corrections Administration Certification

CERTIFICATION REQUIREMENTS

Complete all of the following:

- PSA0157 Corrections Administration Set-up & Management
- PSA0161 Corrections Administration Certification Assessment



**FLEX SYSTEM APPLICATION
ADMINISTRATION
CERTIFICATION**

5 DAYS GLNTP0102

CERTIFICATION OVERVIEW

This Certification is conducted as a two part series. It consists of Instructor-Led remote training focused on Flex System Application Administration and the functions related to Set-up and Management. The training is primarily hands-on with various lab activities. Lastly, students will take an online final exam. Upon completion of the course and passing the final exam, students who have enrolled in this certification will have earned the Flex System Application Administration Certification (SAA).

TARGET AUDIENCE

Candidates for the System Application Administration Certification

CERTIFICATION REQUIREMENTS

Complete all of the following:

- PSA0169 System Application Administration Set-up & Management
- PSA0158 System Application Administration Certification Assessment



**FLEX DISPATCH
ADMINISTRATION
CERTIFICATION**

5 DAYS GLNTP0103

CERTIFICATION OVERVIEW

This Certification is conducted as a two part series. It consists of Instructor-Led remote training focused on Flex Computer-Aided Dispatch (CAD) Administration and the functions related to Set-up and Management. The training is primarily hands-on with various lab activities. Lastly, students will take an online final exam. Upon completion of the course and passing the final exam, students who have enrolled in this certification will have earned the Flex Dispatch Administration Certification (DAC).

TARGET AUDIENCE

Candidates for the Dispatch Administration Certification

CERTIFICATION REQUIREMENTS

Complete all of the following:

- PSA0170 Computer-Aided Dispatch Set-up & Management
- PSA0171 Dispatch Administration Certification Assessment

FLEX

For information on prerequisites and to register for courses visit the LXP at:
[LEARNING.MOTOROLASOLUTIONS.COM](https://learning.motorolasolutions.com)

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CERTIFICATION OVERVIEW

This Certification is conducted as a two part series. It consists of Instructor-Led remote training focused on Flex Records Management (RAC) Administration and the functions related to Set-up and Management of the module. The training is primarily hands-on with various lab activities. Lastly, students will take an online final exam. Upon completion of the course and passing the final exam, students who have enrolled in this certification will have earned the Flex Records Administration Certification (RAC).

TARGET AUDIENCE

Candidates for the Records Administration Certification

CERTIFICATION REQUIREMENTS

Complete all of the following:

- PSA0172 Records Management Set-up & Administration
- PSA0173 Records Administration Certification Assessment

COMMANDCENTRAL

Incident Awareness

Incident Management

Post-Incident Resolution

COMMUNITY
ENGAGEMENT

EMERGENCY CALL
MANAGEMENT

VOICE &
COMPUTER
AIDED DISPATCH

REAL-TIME
INTELLIGENCE
OPERATIONS

FIELD RESPONSE
& REPORTING

RECORDS
& EVIDENCE
MANAGEMENT

ANALYSIS &
INVESTIGATION

JAIL & INMATE
MANAGEMENT



Public



Call Taker



Dispatcher



Intelligence
Analyst



Frontline
Responder



Records
Administrator



Investigating
Officer



Custody
Officer

Cloud-enabled
Unified communication & collaboration

PUBLIC SAFETY PLATFORM

Centralized public safety data
Analytics & AI

COMMANDCENTRAL YOUR ALL-IN-ONE SOLUTION

As communities grow and evolve, so does the need for faster, more informed responses from public safety agencies. To keep up with the world, you need more than just individual best-of-breed applications. You need an integrated solution specifically designed for real-time response and quick, intuitive processes — you need an ecosystem.

Having access to a full ecosystem means your agency never again has to choose between a vendor with the right product or a vendor with all the services to back it up.



CommandCentral training is conducted utilizing several training modalities: online self-paced training, virtual instructor-led and onsite training. The instruction provided and the related training modality are dependent on each CommandCentral module and the modules deployed on your system. Our CommandCentral Training Team will take a system level view of your CommandCentral deployment and tailor a training solution that creates value for your agency.

Find more details about all our CommandCentral software training courses [in this section of our LXP](#).




CYBERSECURITY COURSES

CYBER INCIDENT RESPONSE- DATA COLLECTION AND ANALYSIS (CYB0161)	62
CYBER INCIDENT RESPONSE - VULNERABILITY ASSESSMENT (CYB0162)	62
CYBER INCIDENT RESPONSE - THE INCIDENT RESPONSE PROCESS (CYB0163)	62
CYBER INCIDENT RESPONSE- INCIDENT RESPONSE, METHODS, TOOLS AND TECHNIQUES (CYB0164)	63
CYBER INCIDENT RESPONSE- THREATS AND ATTACKS (CYB0165)	63

CYBERSECURITY

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at: [\(800\) 247-2346, option 4](tel:8002472346) or portal.support@motorolasolutions.com



CYBER INCIDENT RESPONSE- DATA COLLECTION AND ANALYSIS
1 HR
CYB0161

COURSE OVERVIEW

Cyber Incident Response is a self-directed, self-paced Computer Based Training (CBT) program that equips students with the skills needed to fight back against modern cyber threats. This course will cover data collection and analysis for network, host, and cloud-based data sources used within different organizations. Topics discussed throughout this course will focus on both quantitative and qualitative data analysis procedures, as they relate to traditional and typically customized computing solutions. Tools for data analysis within specific operating systems and reporting will also be discussed, as well as what your next steps should be in reporting out your findings to the appropriate teams within your organization.

TARGET AUDIENCE

The Cyber Incident Response- Data Collection and Analysis training is designed for individuals with between 3 and 5 years of experience working in a computing environment as part of a CERT/CSIRT/SOC who desire or are required to protect critical information systems before, during, and after an incident which may be a cybersecurity attack.


COURSE OBJECTIVES

By the end of the course, you will be able to:

- Define security challenges facing cloud computing.
- Compare the advantages and disadvantages of cloud computing.
- Identify the difference between a threat and a vulnerability.
- Identify the differences between big data, data science, and data analytics as they relate to the field of cybersecurity.
- Analyze the need for data analytics as an essential requirement for both consumer and national level security.

REQUISITE KNOWLEDGE

None



CYBER INCIDENT RESPONSE - VULNERABILITY ASSESSMENT
1 HR
CYB0162

COURSE OVERVIEW

Cyber Incident Response- Vulnerability Assessment is a self-directed, self-paced Computer Based Training (CBT) program that equips students with the skills needed to fight back against modern cyber threats. This course takes a comprehensive look at the vulnerability assessment and scanning process. The lessons included here will begin in the planning stages and discuss how you can take scanning plans into action using tools and applications used throughout the cybersecurity industry. Finally, this course will also discuss the actions required once scanning is complete, including post-remediation actions and what steps are required during an audit of your organizational network.

TARGET AUDIENCE

The Cyber Incident Response training is designed for individuals with between 3 and 5 years of experience working in a computing environment as part of a CERT/CSIRT/SOC who desire or are required to protect critical information systems before, during, and after an incident which may be a cybersecurity attack.


COURSE OBJECTIVES

By the end of the course, you will be able to:

- Assess information security risk in computing and networking environments
- Collect cyber threat intelligence
- Analyze the cybersecurity threat landscape
- Respond to and investigate cybersecurity threats
- Analyze data collected from security event logs
- Assess and defend against post-attack techniques.

REQUISITE KNOWLEDGE

None



CYBER INCIDENT RESPONSE - THE INCIDENT RESPONSE PROCESS
1 HR
CYB0163

COURSE OVERVIEW

Cyber Incident Response- The Incident Response Process is a self-directed, self-paced Computer Based Training (CBT) program that equips students with the skills needed to fight back against modern cyber threats. This course provides a complete look at the Incident Response (IR) process and associates related tasks and procedures in IR with a major cybersecurity framework. By first developing a broad understanding of what risk management is, security officials can then create the connections needed to establish security controls relevant to the needs of their specific organizations. At the conclusion of this course, we will also discuss relevant trends and tips for Incident Response (IR) containment, based on the latest research and best case practices from individuals within the cybersecurity industry.

TARGET AUDIENCE

The Cyber Incident Response training is designed for individuals with between 3 and 5 years of experience working in a computing environment as part of a CERT/CSIRT/SOC who desire or are required to protect critical information systems before, during, and after an incident which may be a cybersecurity attack.

COURSE OBJECTIVES

Upon completion of this course, you will be able to

- Assess information security risk in computing and networking environments
- Collect cyber threat intelligence
- Analyze the cybersecurity threat landscape
- Respond to and investigate cybersecurity threats
- Analyze data collected from security event logs
- Assess and defend against post-attack techniques.

REQUISITE KNOWLEDGE

None

CYBERSECURITY

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For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com



CYBER INCIDENT RESPONSE- INCIDENT RESPONSE, METHODS, TOOLS AND TECHNIQUES
1 HR CYB0164

COURSE OVERVIEW

Cyber Incident Response- Incident Response, Methods, Tools, and Techniques is a self-directed, self-paced Computer Based Training (CBT) program that equips students with the skills needed to fight back against modern cyber threats. During this course, these topics will cover a comprehensive overview of the basics of incident response, what steps can be taken to mitigate damage after an attack, and what you can do to help prepare your organization's cybersecurity infrastructure to be more prepared in the future.

TARGET AUDIENCE

The Cyber Incident Response training is designed for individuals with between 3 and 5 years of experience working in a computing environment as part of a CERT/CSIRT/SOC who desire or are required to protect critical information systems before, during, and after an incident which may be a cybersecurity attack.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Assess information security risk in computing and networking environments
- Collect cyber threat intelligence
- Analyze the cybersecurity threat landscape
- Respond to and investigate cybersecurity threats
- Analyze data collected from security event logs
- Assess and defend against post-attack techniques.

REQUISITE KNOWLEDGE

None



CYBER INCIDENT RESPONSE- THREATS AND ATTACKS
1 HR CYB0165

COURSE OVERVIEW

Cyber Incident Response- Threats and Attacks is a self-directed, self-paced Computer Based Training (CBT) program that equips students with the skills needed to fight back against modern cyber threats. The course provides both a historical and current look at threat trends affecting both small and large organizations. Includes a review of data-specific trends based on recently published attacks, as well as the impact of those incidents. By developing an understanding of what vulnerabilities are commonly searched for by attackers, organizations can prepare defense and mitigation plans in advance of an attack and by doing so protect proprietary data and other valuable organizational information.

TARGET AUDIENCE

The Cyber Incident Response training is designed for individuals with between 3 and 5 years of experience working in a computing environment as part of a CERT/CSIRT/SOC who desire or are required to protect critical information systems before, during, and after an incident which may be a cybersecurity attack.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Assess information security risk in computing and networking environments
- Collect cyber threat intelligence
- Analyze the cybersecurity threat landscape
- Respond to and investigate cybersecurity threats
- Analyze data collected from security event logs
- Assess and defend against post-attack techniques

REQUISITE KNOWLEDGE

None

MOBILE VIDEO


4RE - BASIC OPERATION FOR IN-CAR OFFICERS (WTG0100)	65
V300 BODY-WORN CAMERA (WTG0101)	65
VIDEOMANAGER EL CLOUD (WTG0102)	66
VIDEOMANAGER EL ON-PREM (WTG0103)	67
VISTA & VISTA WIFI BODY CAMERA (WTG0104)	66
REDACTIVE USER TRAINING (WTG0105)	66
EVIDENCE LIBRARY 4 WEB (WTG0106)	67
V300 BODY-WORN CAMERA RELEASE 3.0.1 AND LATER (WTG0108)	67
M500 USER TRAINING (WTG0200)	67
4RE VEHICLE INSTALLATION CERTIFICATION (WTG0500)	68
COMMANDCENTRAL EVIDENCE DEPLOYMENT USER TRAINING (WTG0107)	68
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4RE FACTORY TRAINING (WTG0401)	69
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MOBILE VIDEO

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at: (800) 247-2346, option 4 or portal.support@motorolasolutions.com



4RE - BASIC OPERATION FOR IN-CAR OFFICERS

1 HR WTG0100

COURSE OVERVIEW

4RE is a powerful in-car digital camera system for collecting evidence in the field. This course introduces 4RE and presents the essential knowledge and skills needed to effectively operate the in-car portion of 4RE during a shift. Build the foundation for using 4RE by taking this course. It is required for all new users including in-car officers, patrol supervisors, evidence custodians, fleet managers, system administrators, and agency command staff.

TARGET AUDIENCE

This course is for anyone who needs to know how to effectively operate 4RE.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe the Big Picture perspective of how the WatchGuard 4RE System works
- Identify the six key in-car components of 4RE
- Explain the basic functionality of the DVR video loop
- Define and understand the term recorded event
- Perform the 10 in-car operations needed for a shift
- Explain how to utilize the 4RE Special Features.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



V300 BODY-WORN CAMERA

1 HR WTG0101

COURSE OVERVIEW

In this course you will learn how to get started with the new V300 Body Camera and perform basic field operations. The course presents the information needed for all release versions prior to 3.0.1.

TARGET AUDIENCE

This course is for all new V300 Users with release versions prior to 3.0.1.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Get started with the new V300 Body Camera
- Perform camera Checkout
- Mount the camera
- Start and stop recordings
- Replace the removable battery
- Import Recorded Events

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



VIDEOMANAGER EL CLOUD

1.5 HR WTG0102

COURSE OVERVIEW

This course introduces the participants to VideoManager EL Cloud, formerly known as EvidenceLibrary.com (ELC). The users learn how this evidence management system works, where to search for the Recorded Events, how to work with recorded evidence, and how to import and export data.

TARGET AUDIENCE

Users

COURSE OBJECTIVES

After completing this course, you will be able to:

- Explain that VideoManager EL Cloud is a cloud-hosted evidence management system.
- - Use main tabs and icons, as well as search for the Recorded Events.
- - Link events, create cases, and apply the Map Playback functions.
- - Export and import recorded evidence using various methods.
- - Perform common administrative tasks.

REQUISITE KNOWLEDGE

Complete the following courses based on the solutions you have purchased:

- M500 User Training (WTG0200)
- 4RE - Basic Operation for In-Car Officers (WTG0100)
- V300 Body Camera (WGT0101)
- V300 Body-Worn Camera Release 3.0.1 and Later (WTG0108)
- VISTA & VISTA WiFi Wearable Camera - User Training
- CommandCentral Evidence (PSA0140)

PREREQUISITES

None

VMOBILE VIDEO

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

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(800) 247-2346, option 4 or portal.support@motorolasolutions.com



VIDEOMANAGER EL ON-PREM

1 HR WTG0103

COURSE OVERVIEW

This course introduces the participants to VideoManager EL On-Prem, formerly known as Evidence Library On-Premise (EL5 or EL On-Prem). The users learn how this evidence management system works, where to search for the Recorded Events, how to work with recorded evidence, and how to import and export data.

TARGET AUDIENCE

Users

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Explain that VideoManager EL On-Prem is a server-based on-premise evidence management system.
- Use the main tabs and icons, as well as search for the Recorded Events.
- Link events, create cases, and apply the Map Playback functions.
- Export and import recorded evidence using various methods.
- Perform common administrative tasks)

REQUISITE KNOWLEDGE

Complete the following courses based on the solutions you have purchased:

- M500 User Training (WTG0200)
- 4RE - Basic Operation for In-Car Officers (WTG0100)
- V300 Body Camera (WGT0101)
- V300 Body-Worn Camera Release 3.0.1 and Later (WTG0108)
- VISTA & VISTA WiFi Wearable Camera - User Training
- CommandCentral Evidence (PSA0140)

PREREQUISITES

None



VISTA & VISTA WIFI BODY CAMERA

0.5 HR WTG0104

COURSE OVERVIEW

In this course you will learn how to get started with your new VISTA body worn camera and perform basic field operations. This course includes information for three different models of VISTA body worn cameras: VISTA, VISTA WiFi & VISTA XLT. Additionally, an optional VISTA administration module is available during this course.

TARGET AUDIENCE

VISTA Users, VISTA WiFi Users, VISTA XLT Users.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Operate VISTA Body Worn Cameras
- Identify Components
- Perform Camera Checkout
- Mount the Camera
- Create a Recorded Event
- Enter and Exit Covert Mode
- Adjust Power Saving Options
- Import Recorded Events
- Find Informational Resources
- Optionally Manage Administration Functions

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



REDACTIVE

1 HR WTG0105

COURSE OVERVIEW

This course introduces the participants to REDACTIVE and explains the difference between the Single User and Enterprise options. Users will learn about the REDACTIVE workflow – how to import, redact, and export a video evidence file.

TARGET AUDIENCE

Users and administrators of REDACTIVE.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Explain what REDACTIVE Single User and Enterprise are.
- Use the menu and control options, as well as video player controls and keyboard shortcuts.
- Import files and perform Automatic or Manual Redaction.
- Review, edit, and export a redacted video evidence file.
- Perform common administrative tasks.

REQUISITE KNOWLEDGE

None


PREREQUISITES

None

MOBILE VIDEO

For information on prerequisites and to register for courses visit the LXP at: LEARNING.MOTOROLASOLUTIONS.COM

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**EVIDENCE LIBRARY
4 WEB**

1 HR WTG0106

COURSE OVERVIEW

This course introduces Evidence Library 4 Web (EL4 Web) and presents all the features and skills for all user levels. EL4 Web software features include the EL4 web access client; evidence management support both VISTA and 4RE systems, support for the VISTA Transfer Station and sharing evidence using CLOUD-SHARE.

TARGET AUDIENCE

Users of Evidence Library 4 Web.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Access and login to Evidence Library 4 Web (EL4 Web)
- Search, review and playback Recorded Events
- Export evidence from 4RE and VISTA using various methods (Local drive, CD/DVD/Blu-Ray and CLOUD-SHARE)
- Import Recorded Evidence using the USB and VISTA Dashboards
- Assign an officer to a VISTA Body Camera using Checkout
- Perform common administrative tasks (optional)


REQUISITE KNOWLEDGE

Before starting this training, students are expected to have completed one or both of these online courses:

- 4RE - Basic Operation for In-Car Officers (WTG0100)
- VISTA & VISTA WiFi Body Camera (WTG0104)

PREREQUISITES

None



**V300 BODY-WORN CAMERA
RELEASE 3.0.1 AND LATER**

0.5 HR WTG0108

COURSE OVERVIEW

In this course you will learn how to get started with the new V300 Body-Worn Camera and perform basic field operations. The course presents the information needed for all release versions 3.0.1 and later.

TARGET AUDIENCE

This course is intended for all new V300 Body-Worn Camera Users.

COURSE OBJECTIVES

After completing this training course you will be able to:

- Get started with the new V300 Body Camera.
- Perform camera Checkout.
- Mount the camera.
- Start and stop recordings.
- Replace the removable battery.
- Import Recorded Events.

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



M500 USER TRAINING

0.5 HR WTG0200

COURSE OVERVIEW

This course introduces you to the M500 In-Car Video System and presents the essential knowledge and skills needed to operate M500 during a shift.

TARGET AUDIENCE

All new M500 users.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe the Big Picture perspective of how the M500 works
- Identify the five key in-car components of M500
- Explain the basic functionality of the DVR video loop
- Define and understand the term Recorded Event
- Perform the 8 in-car operations needed for a shift
- Explain how to utilize the M500 Special Features

REQUISITE KNOWLEDGE

Completion of one of the following courses:

- VideoManager EL Cloud (WTG0102)
- VideoManager EL On-Prem (WTG0103)
- CommandCentral Evidence (PSA0140)

PREREQUISITES

None

VMOBILE VIDEO

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LEARNING.MOTOROLASOLUTIONS.COM

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**4RE VEHICLE INSTALLATION
CERTIFICATION**

1 HR WTG0500

COURSE OVERVIEW

The focus of this online course is on the proper installation of the 4RE system components into a law enforcement vehicle. The results of a poor 4RE installation results are faulty operation, equipment failure, dissatisfied customers, and a bad impression of WatchGuard. The instructions and best practices presented in this training provide a solid foundation for installers to develop exceptional installation practices. Successful completion of this course provides 4RE Vehicle Installation Certification that is valid for 1 year.

This course is for those who install law enforcement equipment and / or provide vehicle maintenance for an agency using the 4RE in-car video system. The following content presents proper installation techniques and best practices for successful 4RE system functionality including the VISTA WiFi system. The results of a poor 4RE installation are: faulty operation, equipment failure, dissatisfied customers, and a bad impression of WatchGuard. The training you will learn here is the solid foundation for installers to develop exceptional installation practices.

TARGET AUDIENCE

Installers, Fleet Maintenance.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe the three parts of an Installation
- Explain the importance of Preparing for Installation
- List the Installation Required Practices
- Identify the 4RE system components and their common install locations
- Perform an installation according to Recommended Workflow and Installation Required Practices
- Perform system acceptance testing

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



**COMMANDCENTRAL
EVIDENCE DEPLOYMENT
USER TRAINING**

WTG0107

COURSE OVERVIEW

This live virtual instructor-led course is part of the initial on-site, or remote, deployment. It is designed to be the starting point for all new users.

TARGET AUDIENCE

End-User, Officer, All new users of CommandCentral Evidence.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Explain how to Import Recorded Events from VideoManager EL* into CommandCentral Evidence.
- Access, login and navigate CommandCentral Evidence.
- Search for evidence.
- Use the media player for video evidence.
- Redact video and audio evidence.
- Export redaction projects.
- Work with incidents in CommandCentral Records.
- Download and share evidence and incidents.
- Explain how to access CommandCentral resources.


*This course includes references to both VideoManager EL Cloud, formerly known as EvidenceLibrary.com (ELC) and VideoManager EL On-Prem, formerly known as Evidence Library On-Premise (EL5)

REQUISITE KNOWLEDGE

None

PREREQUISITES

None



**COMMANDCENTRAL
EVIDENCE DEPLOYMENT
ADMIN TRAINING**

1 DAY WTG0304

COURSE OVERVIEW

This live virtual instructor-led course is part of the initial on-site, or remote, deployment. It is designed to be the starting point for all new administrators..

TARGET AUDIENCE

Administrators, All new administrators of the 4RE in-car video system, V300 body cameras and CommandCentral Evidence.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Navigate CommandCentral and access administrative tools and features
- Explain how and when to access 4RE and V300 device management tools
- Perform Camera Checkout
- Configure 4RE in-car video system
- Access user security groups and set permissions
- Add new officers to the system
- Access Tag Management and set Retention Rules
- Add new Event Tags to the system
- Describe how evidence imports from 4RE and V300 to CommandCentral Evidence
- List troubleshooting steps if evidence does not appear in CommandCentral Evidence
- Explain how to access CommandCentral resources

REQUISITE KNOWLEDGE

Basic understanding of in-car video systems (4RE/M500) and/or body cameras (VISTA/V300) and CommandCentral Evidence.

PREREQUISITES

None

MOBILE VIDEO

For information on prerequisites and to register for courses visit the LXP at:
LEARNING.MOTOROLASOLUTIONS.COM

For general information contact the North America Training Services help desk at:
(800) 247-2346, option 4 or portal.support@motorolasolutions.com



4RE FACTORY TRAINING

3 DAYS WTG0401

COURSE OVERVIEW

This 3-day in-person classroom course is designed for agency supervisors, trainers, and system administrators to master 4RE in-car video systems, V300 body cameras, and evidence management software.

This course also includes the evidence import process and common troubleshooting techniques.

This course is designed specifically to aide:

Supervisors responsible for training users of in-car systems and body-worn cameras, Supervisors and IT professionals responsible for training users of evidence management software and maintaining the devices and systems. While the course is designed as a train-the-trainer curriculum, all wanting to familiarize themselves with the products are welcome to participate.

TARGET AUDIENCE

Agency supervisors, trainers, and system administrators.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Identify the components of the 4RE
- Explain how the 4RE collects and imports evidence
- Perform daily tasks of 4RE use (login/logout, start, stop and categorize recorded events)
- Explain how to utilize 4RE special features and set officer preferences
- Mount V300 body camera on uniform
- Replace the V300 removable battery
- Perform daily tasks of V300 use (sync to 4RE, start, stop and categorize recorded events)
- Explain how to utilize 4RE special features and set officer preferences
- Access, login and navigate evidence management software (Evidence Library, CommandCentral Evidence)
- Search for and work with Recorded Events in evidence management software
- Download and share Recorded Events
- Manage 4RE and V300 device configurations
- Manage users and permissions
- Troubleshoot connection issues between devices in the import process
- Analyze and troubleshoot common device errors

REQUISITE KNOWLEDGE

None



M500 FACTORY TRAINING

3 DAYS WTG0402

COURSE OVERVIEW

This 3-day in-person classroom course is designed for agency supervisors, trainers, and system administrators to master M500 in-car video systems, V300 body cameras, and evidence management software.

This course also includes the evidence import process and common troubleshooting techniques.

This course is designed specifically to aide:

Supervisors responsible for training users of in-car systems and body-worn cameras, Supervisors and IT professionals responsible for training users of evidence management software and maintaining the devices and systems. While the course is designed as a train-the-trainer curriculum, all wanting to familiarize themselves with the products are welcome to participate.

TARGET AUDIENCE

Agency supervisors, trainers, and system administrators.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Identify the components of the M500
- Explain how the M500 collects and imports evidence
- Perform daily tasks of M500 use (login/logout, start, stop and categorize recorded events)
- Explain how to utilize M500 special features and set officer preferences
- Mount V300 body camera on uniform
- Replace the V300 removable battery
- Perform daily tasks of V300 use (sync to M500, start, stop and categorize recorded events)
- Explain how to utilize M500 special features and set officer preferences
- Access, login and navigate evidence management software (Evidence Library, CommandCentral Evidence)
- Search for and work with Recorded Events in evidence management software
- Download and share Recorded Events
- Manage M500 and V300 device configurations
- Manage users and permissions
- Troubleshoot connection issues between devices in the import process
- Analyze and troubleshoot common device errors

REQUISITE KNOWLEDGE

None



4RE VEHICLE INSTALLATION CERTIFICATION

1 DAY WTG0502

COURSE OVERVIEW

The focus of this hands-on classroom training course is on the proper installation of the 4RE system components into a law enforcement vehicle. The results of a poor 4RE installation results are faulty operation, equipment failure, dissatisfied customers, and a bad impression of Motorola Solutions. The instructions and best practices presented in this training provide a solid foundation for installers to develop exceptional installation practices. Successful completion of this course provides 4RE Vehicle Installation Certification that is valid for 1 year. This course is for those who install law enforcement equipment and / or provide vehicle maintenance for an agency using the 4RE in-car video system. The following content presents proper installation techniques and best practices for successful 4RE system functionality including the VISTA WiFi and V300 systems.

TARGET AUDIENCE

Installers, Fleet Maintenance.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe the three parts of an Installation
- Explain the importance of Preparing for Installation
- List the Installation Required Practices
- Identify the 4RE system components and their common install locations
- Perform an installation according to Recommended Workflow and Installation Required Practices
- Perform system acceptance testing

REQUISITE KNOWLEDGE

Optionally, register for the 4RE Factory Training (WTG0401) course during the same week to become an expert on 4RE in-car video systems, body cameras and evidence management software.

VMOBILE VIDEO

For information on prerequisites and to register for courses visit the LXP at: [LEARNING.MOTOROLASOLUTIONS.COM](https://learning.motorolasolutions.com)

For general information contact the North America Training Services help desk at: **(800) 247-2346, option 4** or portal.support@motorolasolutions.com



COURSE OVERVIEW

The focus of this hands-on classroom training course is on the proper installation of the M500 system components into a law enforcement vehicle. The results of a poor M500 installation are faulty operation, equipment failure, dissatisfied customers, and a bad impression of Motorola Solutions. The instructions and best practices presented in this training provide a solid foundation for installers to develop exceptional installation practices. Successful completion of this course provides M500 Vehicle Installation Certification that is valid for 1 year. This course is for those who install law enforcement equipment and / or provide vehicle maintenance for an agency using the M500 in-car video system. The following content presents proper installation techniques and best practices for successful M500 system functionality including the V300 systems.

TARGET AUDIENCE

Installers, Fleet Maintenance.

COURSE OBJECTIVES

By the end of the course, you will be able to:

- Describe the three parts of an Installation
- Explain the importance of Preparing for Installation
- List the Installation Required Practices
- Identify the M500 system components and their common install locations
- Perform an installation according to Recommended Workflow and Installation Required Practices
- Perform system acceptance testing

REQUISITE KNOWLEDGE

Optionally, register for the M500 Factory Training (WTG0402) course during the same week to become an expert on M500 in-car video systems, body cameras and evidence management software.

Optionally, take the M500 Installation Certification (WTG0501) self-paced online course instead to receive your certificate of completion.



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[MOTOROLASOLUTIONS.COM/LEARNING](https://motorolasolutions.com/learning)

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