



**Astra  
Wireless**

# Astra Wireless Training Proposal

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## 1.1. General information

Astra Wireless Academy training programs are designed to provide unique knowledge of the wireless technologies and develop skills for effective applications of wireless systems. Academy will assist not only with the operation of Astra Wireless' solutions but also give a deeper understanding of high-speed wireless technology. Academy training programs are developed to provide the most useful information for participants of different levels of experience and with different training requirements.

The online education combines modules and practical lessons to learn at your own pace and calls with a lecturer to sort out complex issues. After completion of training the certificate is issued.



### NOTE

The training takes place at the online platform and includes a webinar with an Astra engineer to discuss complex topics and answer questions. Webinar dates and times are subject to Astra Wireless confirmation.

## 1.2. Who studies at Astra Wireless Academy?

### 1.2.1. Technical experts

In order to quickly and efficiently perform equipment installation and configuration, rapidly identify the cause of any problems that arise and how to resolve them, you need to know the technical side of the used devices operation. Materials presented on the portal are designed to guide you through all questions concerning Astra Wireless equipment. Here you will find installation instructions, information how to set up a link, how to access and use configuration interface and a lot of other useful information.

### 1.2.2. CTO & CIO

In order to determine the correct solution for the projects requirements, answers on a set of questions must be found:

- What products are suitable for certain tasks realization.
- Key products features.

Materials presented on the portal are designed to guide you through all questions concerning Astra Wireless equipment.

### **1.2.3. Network engineers**

Here you will find necessary information that lets you accurately predict performance characteristics and verify the success of your project prior equipment purchasing. Presented materials will walk you through the instruction how to plan and optimize a link in "point-to-point" and "point-to-multipoint" topologies, how to attain the best possible performance and how to perform Astra Wireless equipment deployment.

## **1.3. Certifications**

Astra Wireless educational resources and certification programs are intended for specialists of any level and are aimed to acquiring new knowledge and skills in operating the company equipment. Astra Wireless certificates confirm the specialists knowledge and skills, helping them to improve their qualifications and the level of confidence to own professional competence. Currently, there are three levels of qualifications available, which can be confirmed by the corresponding certificate:

### **1.3.1. Listener certificate**

A listener certificate is provided to a user who has completed basic or advanced course available at the Astra Wireless Academy portal. This certificate confirms that its owner has attended the appropriate course.

### **1.3.2. Engineer Certificate**

An Engineer certificate is provided to a user who successfully passes the certification exam. The certificate confirms that its owner has sufficient skills in operating Astra Wireless equipment.

At the end of the validity period, the certificate can be renewed by successfully passing the certification exam. The certification exam is available on the Astra Wireless Academy portal and can be passed online.

## **1.4. Available training programs**

### **1.4.1. Basic technical course**

This course introduces Astra Wireless products, its configuration, implementation, operation and used technologies. The course includes theoretical explanations and practical (interactive modules) exercises. It provides instruction on working in the units web interface and the basics of using configuration settings.

## **1.4.2. Advanced technical course\***

This course is a continuation of the basic technical course. The program of this course involves an in-depth study of MINT switching and the schemes configuration for traffic redundancy and aggregation, setting up traffic shaping and expands the understanding of the devices capabilities.

\*Coming soon

## 2.1. Basic Technical Course

### 2.1.1. Target Audience

- Telecommunication Engineers.
- System Engineers.
- Support Engineers
- IT&C specialists, etc.

### 2.1.2. Prerequisites

- Experience with microwave radio equipment.
- With the basic knowledge of the network technologies.
- Direct experience with Windows OS based PC.
- For the international market, fluent English on reading and listening.

### 2.1.3. Objectives

- On completion of this course the participants will be:
- Familiar with Astra Wireless equipment and its accessories.
- Familiar with the product features and associated applications.
- Familiar with Astra Wireless unique and used technologies.
- Able to install, configure and operate Astra Wireless equipment at the basic level.
- Able to commission, provide & maintain services using monitoring system NEXT.
- Able to plan a network using link planner.

### 2.1.4. Delivery Methods

The training takes place at the online platform and includes a webinar with an Astra engineer to discuss complex topics and answer questions.

### 2.1.5. Training Course Description

Module Number	Module Name	Key Knowledge	Duration (working days)
1	Product applications	<ul style="list-style-type: none"><li>• Astra Wireless overview</li></ul>	0,3

Module Number	Module Name	Key Knowledge	Duration (working days)
		<ul style="list-style-type: none"> <li>Astra Wireless products applications and main capabilities</li> </ul>	
2	Astra Wireless products portfolio	<ul style="list-style-type: none"> <li>Quanta family overview</li> <li>Evolution family overview</li> <li>Accessories, external antennas and cables</li> </ul>	0,3
3	Link planning	<ul style="list-style-type: none"> <li>How to plan a network using Planner</li> <li>PtP and PtMP links planning</li> <li>Performance report and link installation guide</li> </ul>	0,4
4	Installation	<ul style="list-style-type: none"> <li>Device installation, lightning protection and grounding</li> <li>Antenna alignment</li> <li>Co-location of multiple devices</li> <li>Emergency repair console</li> </ul>	0,3
5	Astra Wireless technologies	<ul style="list-style-type: none"> <li>TDMA firmware</li> <li>Beamforming technology</li> <li>Dynamic frequency selection</li> </ul>	0,3
6	Astra Quanta configuration	<ul style="list-style-type: none"> <li>General settings</li> <li>Radio settings</li> <li>Practice - Initial Link Configuration</li> <li>Switch settings</li> <li>Practice - Switch Configuration</li> <li>Diagnostic</li> </ul>	0,4
7	Astra Evolution configuration	<ul style="list-style-type: none"> <li>General settings</li> <li>Radio settings</li> </ul>	0,7

Module Number	Module Name	Key Knowledge	Duration (working days)
		<ul style="list-style-type: none"><li>• Practice - Wireless Link Configuration</li><li>• Switch settings</li><li>• Remote access</li><li>• Practice - Units VLAN remote management</li><li>• Quality of Service</li><li>• Diagnostic</li></ul>	
8	NEXT monitoring system	<ul style="list-style-type: none"><li>• Network devices preparation and adding</li><li>• Device monitoring and management</li><li>• Incident management</li><li>• Accounts and user groups</li></ul>	0,3
			3



## Contact us

For further information and/or assistance, please do not hesitate to contact our Technical Support Department:

- Email for other countries – support@astrawireless.net
- Service Desk System for other countries – <http://sd.astrawireless.net>
- Academy Team: academy@astrawireless.net