## **PAPILLON-8 AFIS Database Administrator Training**

**Course duration:** 8 training days (or 12 calendar days, incl. days of arrival and departure and two days off)

## Admission requirements to learners:

- Certified PAPILLON-8 AFIS operator
- At least 1 year of experience in using PAPILLON AFIS

Form of Classes	Qty	Hours
Lectures, lectures-presentations, lectures-demonstrations	22	23 h 20 min
Demonstrations and demonstration with practice	8	7 h 50 min
Practice	11	10 h 50 min
Examination	1	7 h 20 min
Testing	1	6 h 20 min
Meetings	2	3 h
TOTAL		58 h 40 min

Version 2

## **COURSE SYLLABUS**

The plan of this course is scheduled with provision for coffee breaks and lunch hours.

Topic / Subject	Description	Hours
OPENING SESSION	<ul> <li>Filling in questionnaires.</li> <li>Safety Instructions.</li> <li>Fire Safety Instructions.</li> <li>Code of behavior on the company premises</li> </ul>	2 h
INTRODUCTORY LECTURE Main System Administrating Tasks in PAPILLON AFIS DB	<ul> <li>Goals and Tasks of the Course</li> <li>Introduction to the Course Syllabus</li> <li>AFIS database administrator's tasks</li> <li>Risks inherent in infringement of the AFIS exploitation conditions</li> </ul>	1 h 40 min
LECTURE-PRESENTATION PAPILLON AFIS Hardware and Software: System Architecture	Conceptual and logical structure of PAPILLON AFIS System configuration Machine functions  Network Complex: - stations' mission - host names - users (st and admin) - pilot (program for managing and transmitting tenprints and latent prints through communication channels)  Server: - mission - host name - authorized users  Processes: - assignment of licenses - authorization - index data synchronization - input station - Database Viewer - search manager - distribution of index data for matching - management of automatic stations - automatic object transfer program - Express ID Checks Server  Workstation: - mission - host name - users st and admin  Processes: - image processors - Database Viewer client - PAPILLON AFIS Main Menu - synchronization - management of automatic stations  Matcher: - mission	3 h 40 min

	- host name	
	- users	
	Processes:	
	- distribution of index data for searches	
	- matching	
	- synchronization	
	•	
	- automatic stations management	
	Membox: - mission	
	- host name	
	- users	
	Processes:	
	- control over operation with database segments	
	- synchronization	
	- automatic stations management	
	<b>Booking Station (Station for electronic</b>	
	<u>fingerprinting):</u>	
	- mission	
	- host name	
	- users	
LECTURE -PRESENTATION	Technological workflow of tenprint entry procedure:	1 h
Technology of Tenprint Entry in	- interactive processes	
PAPILLON database	- background processes	
LECTURE -PRESENTATION	Technological workflow of latent print entry	40 min
Technology of Latent Print Entry in	procedure:	
PAPILLON database	- interactive processes	
	- background processes	
LECTURE – PRESENTATION	Concept of divisions	2 h
Database Structure	Concept of segments	
	Numeration and attributes (flags)	
	Segment structure	
	Concept of a macrosegment	
DEMONSTRATION	Operations over database lists (choosing and)	1 h
Database Viewer	sorting)	
	Making selections from the database	
	Viewing text and images	
	Deletion of objects from the database	
	Work with LT-TP candidate lists	
PRACTICE	Tasks on performing different operations in the	1 h
Database Viewer	database.	'."
2440450 1101101	Tutor's guidance available.	
DEMONSTRATION	Verification of TP-TP search results	20 min
Recommendations on Database	Verification of TP-LT search results	20 111111
Maintenance	Verification of TT-ET scarch results     Verification of LT-TP search results	
Maintenance	NATIONAL CAMPAGE 1	
	Operation with identified objects     Operation with duplicated objects	
	Operation with duplicated objects  Missian of DAPH LONIMPS Workstation	
DEMONICHD APPONIC	Mission of PAPILLON MDS Workstation  France ID Check assistant	
DEMONSTRATION &	Express ID Check session	1 h 20
PRACTICE (ACC)	Creating electronic tenprints through livescan	min
Express ID Check Workstation (MDS)	fingerprinting	
	Interaction with higher-level AFISs	
LECTURE-DEMONSTRATION	Creation of new user accounts, editing and deletion	1 h
User Management in PAPILLON	Database access rights:	

AEIC		
AFIS	common     by DP divisions	
	by DB divisions     group	
	group     Aliases of database partitions	
	Settings of an access to AFIS services	
PRACTICE	Tasks on creating new user accounts and controlling	1 h
User Management in PAPILLON	access to the AFIS.	1 11
AFIS	Checking and consulting by the tutor.	
LECTURE-DEMONSTRATION	Program description	40 min
Control over Background Processes	Current status of automatic stations	TO IIIII
(Automatic Stations)	Automatic stations monitoring and management	
(Tutomatic Stations)	Overall monitoring of the system	
	Work with err-files	
		20 :
LECTURE – PRESENTATION	Concept of index data  Consolete distribution of index data	30 min
Distribution of Index Data on	Complete distribution of index data	
Matchers	Incomplete distribution of index data	
LECTURE-DEMONSTRATION	Check for availability of empty segments in DB	2 h 30
Segment Management	Creation of segments	min
	Creation of segments for deleted tenprints/ latent	
	prints	
	Creation of macrosegments	
	Diagnostics and generation of tenprint groups	
	(groups of mates)	
	Diagnostics and correction of candidate lists  Correction of candidate lists	
	Correction of queues of search results	
	Synchronization of index data on mirroring	
	memboxes  Purging deleted files from segments	
	Purging deleted files from segments  Conving segments from external modia	
	<ul><li>Copying segments from external media</li><li>Unlocking segments after emergency shutdown</li></ul>	
	of the server	
PRACTICE	Tasks on various operations with segments.	2 h
Segment Management	Checking and consulting by the tutor.	
DEMONSTRATION & PRACTICE	Mission	
PAPILLON-M Mobile Versatile	Configuration	40 min
Professional Workstation	Functional capabilities	
LECTURE-DEMONSTRATION	Diagnostics and recovery of index data on the	1 h
Work with Index Data	server, viewing logs	
	Diagnostics and recovery of index data on all	
	matchers, viewing logs	
	Synchronization of index data between the server	
	and matchers	
	Distribution of index data on matchers	
PRACTICE	Tasks on various operations with index data.	40 min
Work with Index Data	Checking and consulting by the tutor.	

LECTURE - PRESENTATION Ensuring Data Integrity in the AFIS (Archive Manager and Backup Manager)	<ul> <li>Archiving in PAPILLON AFIS</li> <li>Saving a backup copy of a segment</li> <li>Concept of current and periodic archives</li> <li>System backup</li> </ul>	20 min
LECTURE-DEMONSTRATION Recording a Segment of Tenprints on a CD/DVD	<ul> <li>Exploring the CD-recorder application</li> <li>Copying a full tenprint segment onto a CD/DVD</li> </ul>	40 min
LECTURE-DEMONSTRATION Work with Archives	<ul> <li>Program description</li> <li>Work with current archives: <ul> <li>status control</li> <li>deletion of archives</li> </ul> </li> <li>Work with periodic archives</li> <li>Recording of archives on external mediums</li> </ul>	50 min
LECTURE-DEMONSTRATION Work with Backups	<ul> <li>Backup constituents</li> <li>Program description</li> <li>Monitoring of system backups</li> <li>Backup of system working files</li> <li>Recording of backup copies on external mediums</li> </ul>	40 min
PRACTICE Data Integrity in the AFIS. Work with Archives. Work with System Backups. Recording of a Tenprint segment on a CD/DVD	Tasks on measures ensuring data integrity in the AFIS: operation with archives, system backups, recording of a segment of tenprints on a CD/DVD. Checking and consulting by the tutor.	30 min
DEMONSTRATION & PRACTICE Replacement of Polymeric Coating (Membrane) of the Scanning Prism	<ul> <li>How to determine the need in replacing the membrane on the livescan device</li> <li>Procedure for replacing the membrane of the scanner</li> <li>Materials and tools needed to replace the membrane</li> </ul>	1 h 40 min
LECTURE-DEMONSTRATION Recovery of Database Objects. Recovery of Files from Backups.	<ul> <li>Recovery of deleted objects in the database</li> <li>Use of archives for object recovery</li> <li>Recovery of system files from backups</li> </ul>	40 min
PRACTICE Recovery of Database Objects. Recovery of Files from Backups.	Tasks on recovering database objects and system files. Checking and consulting by the tutor.	30 min
LECTURE - PRESENTATION Data Exchange with Other AFISs	<ul><li>Objects export</li><li>Objects import</li><li>Objects relocation within the local DB</li></ul>	20 min
LECTURE-DEMONSTRATION Export and Import of Objects from and to the AFIS Database. Settings to Mount Devices and Remote Systems.	<ul> <li>Export of objects: objectives and procedure</li> <li>Import of objects: objectives and procedure</li> <li>Relocation of objects within the local database</li> <li>Work with external mediums</li> <li>Conversion of files to ANSI/NIST format</li> <li>Customization of print forms for lists</li> <li>Import of objects in AFIS and ANSI/NIST formats</li> <li>Adding of new devices to the exchange module</li> </ul>	2 h 10 min

PRACTICE Export and Import of Objects from and to the AFIS Database. Settings to Mount Devices and Remote Systems.	Tasks on exporting and importing objects from and to the AFIS database, and on setting up the mounting parameters for devices and remote systems.  Checking and consulting by the tutor.	1 h 30 min
LECTURE - DEMONSTRATION Creation and Editing Text Data Entry Forms. Work with Picklists and Dictionaries	<ul> <li>Program description</li> <li>Creating new text data forms for tenprints, editing and deleting of the existing ones:         <ul> <li>for initial text data entry</li> <li>for selecting tenprints by specific criteria</li> <li>for editing text details of a tenprint stored in the database</li> </ul> </li> <li>Creating and activating picklists and dictionaries (simple and multilevel)</li> <li>Editing picklists</li> </ul>	30 min
PRACTICE Creation and Editing Text Data Entry Forms. Customization of Picklists and Dictionaries.	Tasks on creating and editing text data entry forms and on customizing picklists and dictionaries. Checking and consulting by the tutor.	1 h
LECTURE-DEMONSTRATION Search Tracking	<ul> <li>Program description</li> <li>Searches monitoring</li> <li>Distribution of search types on matchers (search range control)</li> <li>Changing request priority (urgency)</li> </ul>	40 min
EXAMINATION	Tasks on the covered subjects. Checking and consulting by the tutor.	7 h 20 min
LECTURE-DEMONSTRATION Statistics Gathering. Viewing Statistics by Operators.	<ul> <li>Statistics Viewer: program description and capabilities</li> <li>Procedure</li> <li>Recording of statistic reports to file</li> <li>Printing of statistic reports</li> </ul>	30 min
PRACTICE Statistics Gathering. Viewing Statistics by Operators.	Tasks on gathering various statistics, including that on operators. Checking and consulting by the tutor.	30 min
<b>DEMONSTRATION</b> Gathering Statistics about the Database	Use of the generator to create statistical reports on the database.	1 h
LECTURE-PRESENTATION Interaction between AFIS, Polyphem and Statistics Generator	Interaction between the AFIS system, Polyphem and the Statistical Report Generator.	30 min
LECTURE (Survey) Procedure to Switch On/Off the AFIS Hardware	Proper sequence of switching the AFIS system on and off.	30 min
DEMONSTRATION Replacement of Polymeric Coating (Membrane) of the Scanning Prism	Testing of the previously replaced membrane of the fingerprint scanner.	20 min
<b>DEMONSTRATION</b> Technology of Bulk Tenprint Entry	<ul> <li>Description of the technology</li> <li>Text data entry and image acquisition during the bulk entry session</li> </ul>	1 h 30 min

PRACTICE	A session of questioning of the trainees for their	1 h 30
Questions from PAPILLON Hotline	knowledge of PAPILLON AFIS operation.	min
Service		
PRACTICE	• Consultations of the tutor on trainees' questions	40 min
Preparation for Final Examination	<ul> <li>Preparing for the final exam</li> </ul>	
LECTURE	Talk about the importance and necessity to provide	20 min
Information Security in PAPILLON	confidentiality of information resources of the AFIS	
AFIS	site	
FINAL EXAMINATION	Instructions on the examination procedure	6 h 20
	Performing tasks specified on question cards	min
	comprising two parts:	
	- writing test	
	<ul> <li>practical task on diagnostics and</li> </ul>	
	troubleshooting	
	Checking the tasks by the tutor.	
	Filling in the examination worksheet.	
CLOSING SESSION	Summarizing the outcome of the training,	1 h
	exchanging opinions and views	
	Giving out documentation	