



# **SON-OM 2017** Training Programs

## Catalog of Course Descriptions





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**AUTOMATIC RADIO PARAMETERS AND NEIGHBOR LIST OPTIMIZATION WITH SON  
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## Introduction

Ericsson has developed a comprehensive Training Programs service to satisfy the competence needs of our customers, from exploring new business opportunities to expertise required for operating a network. The Training Programs service is delineated into packages that have been developed to offer clearly defined, yet flexible training to target system and technology areas. Each package is divided into flows, to target specific functional areas within your organization for optimal benefits.

**The delivery of the Learning Products is realized by various Services:**

Icon	Service
	Instructor Led Training (ILT)
	Virtual Classroom Training (VCT)
	eLearning (WBL)
	Workshop (WS)
	Short Article (SA)
	Structured Knowledge Transfer (SKT)
	mLearning
	Job duty analysis (JDA)
	Competence GAP Analysis (CGA)

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## Automatic Radio Parameters and Neighbor List Optimization with SON Optimization Manager (SON-OM)



LZU1089601 R4A

### Description

You need autonomous cell-level optimization in order to obtain the optimum settings for a given network in an efficient way that cannot be achieved manually. You know the potential savings in terms of money and time by using SON, but you also know the risks of changing the configuration of the network without the proper control. SON Optimization Manager would help in that purpose using automated solutions based on OSS measurements and interfaces.

In this course you will learn how to better control the inputs and outputs of the SON-OM tool to automate the optimization process instead of doing it manually.

Hands-on exercises allow participants to become familiar with the environment and methodologies associated to the tools.

### Learning objectives

On completion of this course the participants will be able to:

- 1 Describe the SON environment
  - 1.1 Identify the systems, servers and applications
  - 1.2 Discuss the architecture
- 2 Clarify the configuration and integration components
  - 2.1 List the OSS accounts requirements (2G,3G,4G)
  - 2.2 Recognize the IP and network configuration requirements
  - 2.3 Install the software and request licenses
  - 2.4 Monitor and maintain the system
  - 2.5 Identify region and user management menus
- 3 Underline the data collection processes and flows (2G, 3G, 4G)
  - 3.1 Locate the Python scripts
  - 3.2 Indicate what SDG settings are required
  - 3.3 Acknowledge the audit functionalities
- 4 Discuss use cases for 3G
  - 4.1 Discriminate between the two main use cases
  - 4.2 Differentiate between the ANR use cases (C-ANR, A-ANR, G-ANR)
  - 4.3 Investigate CCLB optimization strategy
- 5 Discuss use cases for LTE

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- 5.1 Differentiate between the CCLB algorithms and ANR Augmentation
- 5.2 Investigate CCLB optimization strategy
- 5.3 Set up the GUI according to a specific strategy
- 6 Identify the implementation options
  - 6.1 Recognize the use of SIS based on XML files
  - 6.2 Plan alternative implementation based on Moshell (MBOX)
  - 6.3 Recognize overall good practices
- 7 Practice use cases
  - 7.1 Generate the OPERDB with SDG
  - 7.2 Execute use cases for CANR
  - 7.3 Execute use cases for CCLB 3G
  - 7.4 Execute use cases for A-AUG 4G
  - 7.5 Evaluate the output of every use case

## Target audience

The target audience for this course is:

Service Engineer

## Prerequisites

Successful completion of the following courses:

Basic knowledge on UMTS, including optimization, design and planning  
Basic knowledge on LTE, including optimization, design and planning  
Basic knowledge on OSS and scripting languages (Python and MOshell)

## Duration and class size

The length of the course is 3 days and the maximum number of participants is 8.

## Learning situation

This course is based on theoretical and practical instructor-led lessons given in both classroom and in a technical environment using equipment and tools.

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### Time schedule

The time required always depends on the knowledge of the attending participants and the hours stated below can be used as estimate.

<b>Day</b>	<b>Topics in the course</b>	<b>Estimated Time (hours)</b>
1	SON environment	0.5
1	Configuration and integration components	1.5
1	Data collection processes and flows (2G, 3G, 4G)	2
1/2	Use cases discussion for 3G	5
2/3	Use cases discussion for LTE	4
3	Implementation options	2
3	Use cases execution	2
3	Post-test and course evaluation	1

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