



# **Charging System (CS) 4.0**

## Training Programs

Package Description



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## 1 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.

## 2 Why invest in Charging System (CS) 4.0 Package?

At Ericsson, we've worked with hundreds of operators and Service Providers worldwide and we are in a strong position to help with competence build. Ericsson can identify your training needs and then select the right training package to provide the competencies required for a successful and profitable future

### Benefits

- **Faster time to revenue**

Through gaining knowledge on how the Charging System solutions work and are positioned, the operators' business strategies engage with the network's full capabilities

- **Increased performance**

Easy, quick and compact competence build up for Charging System 4.0

- **Minimal risk**

Ericsson's vast industry knowledge and experience is available through appropriate training

- **Organizational effectiveness**

Clear and continuous training strategies to motivate staff and provide opportunities for long term business success



### 3 What's in the Charging System (CS) 4.0 Package?

The following section describes each of the flows in details. Each flow states the prerequisite knowledge. The course flows are focusing on the following job categories.

#### Delta Training

- CS 4.0 Overview Delta
- CS 4.0 Rating Management Delta

#### Operations Center

- CS 4.0 Rating Management
- CCN Operation for CS 4.0

#### Fundamentals

- CS 4.0 Overview
- CCN Overview for CS 4.0

#### IS/IT Support

- CS 4.0 System Administration
- SKT for Charging System 4.0

#### Customer Management

- CS 4.0 MINSAT Customer Care





## 4.2 CS 4.0 Rating Management Delta – FAB 102 2431

This flow introduces participants to the new Rating Management Application in CS 4.0. The course is designed for those who have existing experience in Tariff Handling for CS 3.0.

### 4.2.1 What is achieved by attending the Flow

By attending the flow, students will gain knowledge of Rating Management as it is implemented in CS 4.0 and will be able to:

- Describe the changes introduced by the new Rating Management Application
- Perform Rating Management using the RMA GUI

### 4.2.2 Rationale for Flow design

This flow is necessary for all those that need an understanding of the changes to tariff handling in CS 4.0.

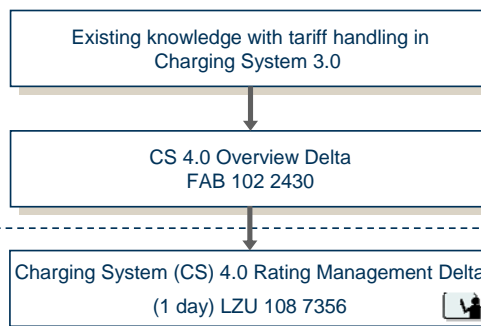
### 4.2.3 Prerequisites

Participants should have attended the following:

- Charging System 3.0 Tariff Handling Delta (LZU 108 6334) or equivalent experience
- CS 4.0 Overview Delta (FAB 102 2430)

### 4.2.4 Training Flow

Prerequisite Knowledge





## **5 Fundamental Training**

### **5.1 CS 4.0 Overview – FAB 102 2432**

This flow gives an introduction to the Charging System 4.0 for those who are working in the area or are interested to know more.

#### **5.1.1 What is achieved by attending the Flow**

By attending the flow, students will gain knowledge of Charging System 4.0 and in particular be able to:

- Explain the components in CS 4.0, their functions and interactions
- Explain the various traffic cases that are supported by CS 4.0

#### **5.1.2 Rationale for Flow design**

This flow is necessary for all those who need an introduction to Charging System 4.0

#### **5.1.3 Prerequisites**

There are no prerequisites for this flow.

#### **5.1.4 Training Flow**

**Charging System (CS) 4.0 Overview**  
**(1 day) LZU 108 7351**

## 5.2 CCN Overview for CS 4.0 – FAB 102 2433

This flow gives an introduction to the Charging Control Node (CCN) for those who are working with the product or are interested to know more.

### 5.2.1 What is achieved by attending the Flow

By attending the flow, students will gain knowledge of CCN node and in particular, be able to:

- Describe the functions of the CCN
- Describe how charging occurs with relation to the CCN

### 5.2.2 Rationale for Flow design

This flow is necessary for all those that need an introduction to the Charging Control Node (CCN).

### 5.2.3 Prerequisites

Participants should have attended the following:

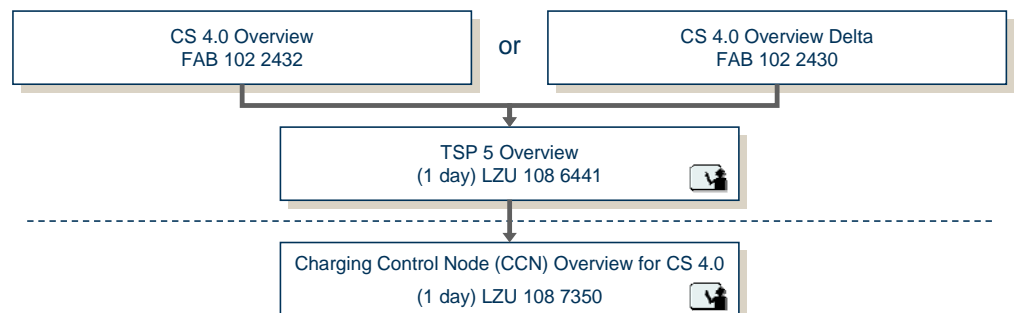
- CS 4.0 Overview (FAB 102 2431)

or

- CS 4.0 Overview Delta (FAB 102 2430)
- TSP 5 Overview (LZU 108 6441)

### 5.2.4 Training Flow

Prerequisite Knowledge





## **6 Customer Care**

### **6.1 CS 4.0 MINSAT Customer Care – FAB 102 2434**

The flow targets the needs of business management in their use of the Charging System 4.0. Other participants who might benefit from this training are IT staff and network support staff.

#### **6.1.1 What is achieved by attending the Flow**

By attending the flow, students will gain the skills to help them deal efficiently with their customers, in particular to be able to:

- Describe the function of MINSAT, customer care role and Charging System 4.0 node interworking
- Use the GUI to perform operations on subscriber accounts

#### **6.1.2 Rationale for Flow design**

This flow fulfills competence to cover customer care tasks in an efficient way.

#### **6.1.3 Prerequisites**

There are no prerequisites for this flow.

#### **6.1.4 Training Flow**

**Charging System (CS) 4.0 MINSAT Customer Care  
(1 day) LZU 108 7353**



## **7 Operation Center**

### **7.1 CS 4.0 Rating Management – FAB 102 2435**

By attending the flow the students will be able to handle the Charging System 4.0 network, in a more efficient way by being able to:

- Handle and execute Tariff handling tasks using Ericsson's Rating Engine
- Configure the Account Management structure

#### **7.1.1 What is achieved by attending the Flow**

By attending the flow, students will learn to:

- Explain and configure tariffs based on Community Charging Support
- Enable enhanced USSD Notifications to the subscriber
- Configure the Account Management Structure

#### **7.1.2 Rationale for Flow design**

This flow exists to educate the operations staff by:

- Describing the theory behind necessary need-to-know skills
- Giving practice on configuration

#### **7.1.3 Prerequisites**

Participants should have attended the following:

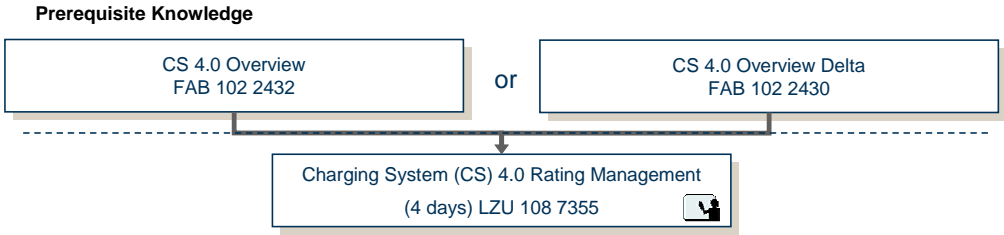
- CS 4.0 Overview (FAB 102 2431)

or

- CS 4.0 Overview Delta (FAB 102 2430)



### 7.1.4 Training Flow





## 7.2 CCN Operation for CS 4.0– FAB 102 2436

This flow provides the students with knowledge about the uses and configuration procedures of the Charging Control Node (CCN). The flow explains the CCN network context, introduces the CCN configuration application and previews the range of available statistics.

### 7.2.1 What is achieved by attending the Flow

By attending the flow, students will learn to:

- How to use the CCN Manager Application
- Obtain CCN statistics
- Monitor and maintain the CCN node operations

### 7.2.2 Rationale for Flow design

This flow exists to educate the operations staff by:

- Learning and understanding the platform that the CCN is based on
- Describe the features and function of the CCN

### 7.2.3 Prerequisites

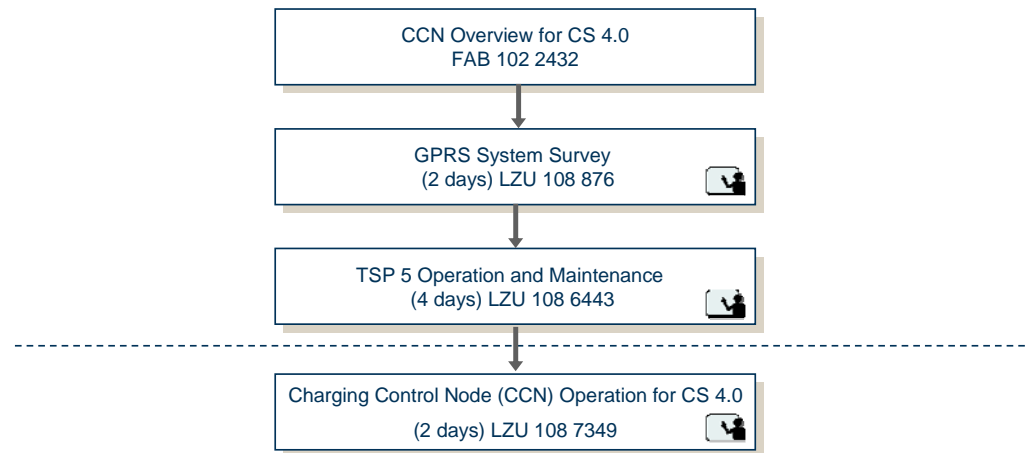
Participants should have attended the following:

- CCN Overview for CS 4.0 (FAB 102 2431)
- GPRS System Survey (LZU 108 876)
- TSP 5 Operation and Maintenance (LZU 108 6443)



## 7.2.4 Training Flow

### Prerequisite Knowledge



## 8 IS/IT Support Training

### 8.1 CS 4.0 System Administration – FAB 102 2437

By attending the flow the students will be able to handle the system administration of Charging System 4.0.

#### 8.1.1 What is achieved by attending the Flow

Students will learn to:

- Configure nodes to provide the service
- Be familiar with system administration tasks and handling of nodes

#### 8.1.2 Rationale for Flow design

This flow exists to educate the operations staff by:

- Describing the key features, operations and handling routines for each node
- Giving practice on system administration tasks

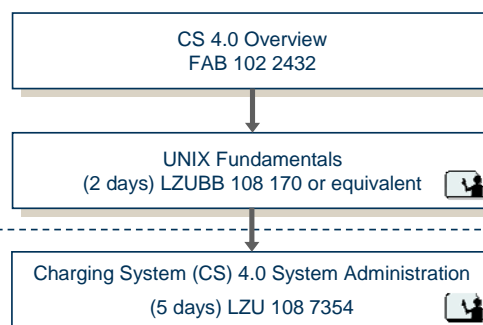
#### 8.1.3 Prerequisites

Participants should have attended the following:

- CS 4.0 Overview (FAB 102 2431)
- UNIX Fundamentals (LZUBB 108 170) or equivalent competence

#### 8.1.4 Training Flow

Prerequisite Knowledge





## 8.2 SKT for Charging System 4.0 – FAB 102 2438

The SKT is designed to accelerate learning and deliver intermediate level of competence to participants in administration of CS 4.0

### 8.2.1 What is achieved by attending the Flow

By attending the flow the students will be able to handle the day to day tasks involved in administration of Charging System 4.0. They will learn how to:

- Operate and maintain the CS 4.0 system

### 8.2.2 Rationale for Flow design

This flow exists to educate the operations staff by:

- Performing day-to day tasks on their CS 4.0 system

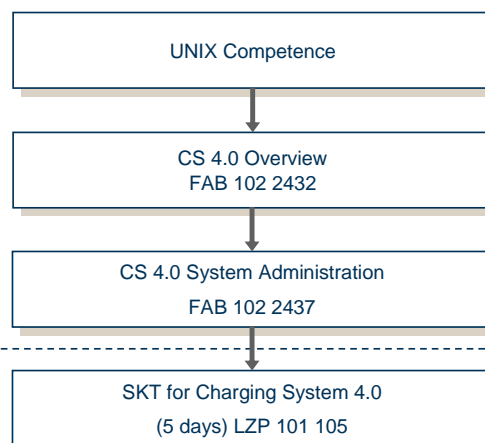
### 8.2.3 Prerequisites

Participants should have attended the following:

- CS 4.0 Overview (FAB 102 2431)
- UNIX Fundamentals (LZUBB 108 170) or equivalent competence
- CS 4.0 System Administration (FAB 102 2437)

### 8.2.4 Training Flow

Prerequisite Knowledge





## 9 Related training packages

[Package Description - DWS](#)

[Package Description - Multi Mediation 5.0](#)

[Package Description - SACC](#)

[HP Media Platform \(OCMP\) administration training](#)