

# CICS Transaction Server for z/OS

## □ System Tailoring and Administration

Version 1.1, November 2020

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## 1.1 Kick-off Workshop

Our kick-off workshops serve as the basis for a successful cooperation during the training period. The workshop will take place in a virtual classroom, where we have an infrastructure needed to become familiar with and learn to use the e-learning tools that are used during the course.

**Duration**        **10 hours**  
**Date**            **April, 12 2021**  
**Location:**      **Virtual Classroom**

### Workshop Objectives

This virtual workshop aims at three things:

- Participants and key-lecturers get to know each other.
- Participants get to know the most important e-learning tools, especially the virtual classroom, the learning management system and access to the operating system used.
- Participants get an initial overview of the module content.

### Content

#### Introduction

Introducing participants  
Introduction to the topic

#### Access to the Mainframe

EMA infrastructure  
Accessing the IBM Computer

#### Learning Efficiency

Learning and neurobiology research  
Efficient learning

#### Course Planning

Events and dates  
Concerted action  
Q & A

#### E-Learning & Blended Learning

Significance of e-learning  
Advantages of Blended Learning  
Integration of digital learning

#### Moodle Learning Platform

Learning platform overview  
Structure of learning platform

#### Virtual Classroom

VC-Session objectives  
How VC differs from traditional classrooms  
Using the virtual classroom

## 1.1 IBM CICS Transaction Server for z/OS – System Tailoring and Administration

### Objectives

- Participants will be able to plan for CICS TS installation and to set up CICS TS regions to support the execution of various applications, of both traditional and modern type as well as a mix of both.
- They will particularly be able to set up the system configuration needed to support features as required by applications, such as interconnecting CICS regions within one or multiple z/OS LPARs, configure connections to external systems and machines for both data access and application integration, and secure access to CICS regions as well as to particular application resources and functions.
- They will be able to make efficient use of CICS-supplied facilities (transactions, utilities, and tools) to configure system and application resources and manage them in their respective runtime environments.
- They will be able to secure CICS TS, setting up security to control both user access to CICS and selected facilities, limit the functional capabilities of connected systems and they will also have a working knowledge of collecting diagnostic data provided by CICS TS to evaluate the regular behaviour of both the system and applications, and perform some high-level troubleshooting.

### Content

#### CICS TS Fundamentals reviewed

CICS as a mixed-language application server  
Integration and architecture options

#### CICS TS installation and verification

Installation planning and options  
DFHISTAR, IVP

#### Resource definition and administration concepts and facilities

Resource definition online and batch – CEDA, DFHCSDUP  
CEMT master terminal transaction  
Setting up and using CICS Explorer  
CPSM basics

#### Setting up and operating a CICS TS region

Start-up options, SIT, start-up PLT  
Logging configuration  
Shutdown and restart options

#### Configuring and administering applications

Application access and connectivity  
- transactions, programs, mapsets, URLmaps  
Data access  
- files, queues  
External systems  
- DB2, MQ, IMS/DBCTL

#### Configuring and administering CICS intercommunication

Interconnectivity methods  
- MRO, XCF, ISC, IPIC  
Interconnectivity functions  
- functions shipping, distributed program link, asynchronous transaction processing

#### Setting up and managing modern interfaces

- Setting up Java incl. Liberty Servers  
- Web Services  
- JSON (REST) and Node.js

**Securing CICS TS**

CICS TS security requirements  
Authorization and Authentication  
Certificates and distributed identities

**Sysplex options**

VSAM RLS  
Shared TS queue  
Shared data tables

**Monitoring CICS and applications**

Statistics  
Monitoring

**Basic Troubleshooting**

Message logs  
Traces and dumps

**Hands-on labs**

Hands-on labs where each participant will set up his or her own CICS TS region and exercise on configurations to support various types of application and system requirements will underpin and deepen the information provided by the presentations.