

CICS Transaction Server for z/OS

□ Fundamentals

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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 **Feb, 16-17 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 - Fundamentals

Objectives

- Participants will be able to describe the purpose and capabilities of an application server in general, and the special ones offered by CICS TS.
- This includes the understanding of transaction processing and the unit of work concept with the main functional components that support these features.
- Participants can describe the special CICS capability of mixed-language application support and what kind of applications, both traditional and modern, can be hosted and run by CICS TS.
- They can basically describe the configuration and administration facilities that come with CICS TS, and how these are used to configure and manage application resources.
- They can also name the most prominent CICS-supplied transactions and their purpose.
- They can basically describe CICS intercommunication features and the functions that allow to run applications on multiple CICS regions, as well as CICS TS security, monitoring and problem determination concepts.

Content

CICS TS Basics

What is CICS and who is using it
How do CICS applications look like ?
CICS TS as a mixed-language Application Server

The unique CICS TS application support

Application architecture samples
The CICS command API
CICS and Java basics
Integration options

Application configuration support concepts and facilities

Resource definition concepts
Online and batch
Deploying (installing) applications

Runtime administration concepts and facilities

CEMT master terminal transaction
Other CICS-supplied transactions
CICS Explorer introduction

Data access and Queueing facilities

VSAM data
Access to DB2, MQ and DLI data
Temporary storage
Transient data

CICS TS Intercommunication

Intercommunication services
Intercommunication functions

CICS TS Recovery and Restart

CICS TS concepts for recovery and restart
Various (re)start types

CICS TS Security overview

Securing access to applications and commands
Securing application resources