

# Course : IBM z/OS System Programmer Fundamentals (ES40G)

Official IBM course

**Practical course - 5d - 35h00 - Ref. ES4**

**Price : 4450 € E.T.**

With this training, you'll gain an in-depth understanding of the basic components that apply to all z/OS systems. This includes high-level concepts that apply to the z/OS hardware platform and z/OS software, as well as more detailed analysis, description and laboratory activities that can be applied to the role of system programmer in maintaining z/OS systems.

## PARTICIPANTS

System programmers and system administrators, who need a comprehensive understanding of the z/OS platform and components, etc.

## PREREQUISITES

Experience in z/OS installation or have completed the training course "z/OS Installation (ES41A)". Knowledge of end-user activities on MVS.

## TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Describe the basics of z/OS architecture
- ✓ Identify the basic components of the z/OS system
- ✓ Discuss what you've learned about LPARs
- ✓ Describe maintenance principles
- ✓ Identify and list the ROP process
- ✓ Describe the IPL process
- ✓ Identify basic addressing spaces
- ✓ Describe how to stop z/OS
- ✓ Implement a basic JES2 batch processing environment
- ✓ Describe the configuration and processing phases of JES3 tasks
- ✓ Identify JES3 startup options
- ✓ Describe the two networking schemes in the z/OS environment: SNA and IP
- ✓ Identify SNA network resources
- ✓ Explain how SNA sessions are set up
- ✓ Describe the role of TCP/IP as a physical file system in UNIX system services
- ✓ Implement and start a local VTAM instance to provide the basis for ANS applications such as TSO
- ✓ Implementing and starting OST
- ✓ Start a TCPIP stack and check accompanying messages
- ✓ Identify the main functions of the security server (RACF)
- ✓ Describe the content of RACF user, group and resource profiles
- ✓ Describes how RACF profiles are used to authorize user access
- ✓ Identifier deux membres clés utilisés pour le démarrage de TCAS
- ✓ Naming the ISPF components
- ✓ Describe the general layout of ISPF/PDF panels
- ✓ Describe how UNIX system services are used in z/OS
- ✓ Briefly describe the UNIX shell and utilities and how to access them
- ✓ Describe the application services provided by UNIX System Services
- ✓ Describe how security is managed in UNIX system services
- ✓ Describe classic z/OS data management
- ✓ Define hierarchical data management
- ✓ And many more besides.

## Intended audience

System programmers and system administrators, who need a comprehensive understanding of the z/OS platform and components, etc.

## Prerequisites

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## ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

## Practical details

### Teaching methods

Animation de la formation en français. Support de cours officiel au format numérique et en anglais. Bonne compréhension de l'anglais à l'écrit.

## Course schedule

### 1 Official program

- What makes up a z/OS system?
- System startup: POR and IPL.
- Processing user work with z/OS.
- Network, z/OS communication server.
- What else is needed for the end user to access the system?
- Data management.
- A closer look at IPL: IPLPARM, SYS1.PARMLIB, SYS1.PROCLIB.
- System management: WLM, SMF, RMF and system recorder.
- Definition of hardware configuration.
- Software maintenance: SMP/E.
- Change management : ServerPac and other IBM services.

### 2 Official practical work

- Introduction to z/OS configuration.
- Complete IPL: start JES, start networking.
- Log in to TSO and create a new user profile.
- Data administration.
- Automate startup and monitor the system.
- Use the System Logger.
- Define a DASD chain and ACTIVATE dynamically.
- Install and maintain a user function.

## Dates and locations

### REMOTE CLASS

2026: 30 Mar., 8 June, 21 Sep., 30 Nov.

### PARIS LA DÉFENSE

2026: 30 Mar., 8 June, 21 Sep., 30 Nov.