

IMS – Eine Einführung in die moderne Systemprogrammierung

Campus Schwäbisch Hall,
17. – 21. Februar 2025

Course Skills - Schedule

After completing this course, you should be able to :

- Understand IMS architecture and concepts in regard to IMS regions and address space functions, as well knowledge about internal structure that provides and supports IMS workload to transactions and databases.
- Give a short overview description of the activities required to install, tailor, maintain and support an IMS DB/TM system.
- Have a basic understanding about system administrations and operations for an IMS DB/TM system.
- Have a deeper understanding about Database administrations for an IMS DB/TM or IMS DBCTL system
- Understand the IMS system design and the IMS specifics of the customer IMS environment

Week schedule:

- Monday 13:00 – 17:30
- Tuesday - Thursday 09:00 - 17:30
- Friday 09:00 – 14:00



Introduce yourself, please !

- Your Name, Your job role,
- Your current experience in products and technologies with IMS and around IMS, please .
- What are your class expectations ?



Today's World of an IMS SYSPROG

The main

„reason to be“

„challenge“

„business as usual“

... is : *„Keep running the IMS System(s) - online and batch“*

- Highest **availability** (no outage) for Service hours
- IMS **administration** (parameter setting , IMS handling, IMS operating, z/OS Operating, ...)
- All **resources** available (databases, transactions and programs, all connectivity to terminals, printers, subsystems, users and gateways)
- Best **performance** (monitoring and **tuning** for pools and buffers , ...)
- Up-to-date maintained systems (SMP/E **Maintenance**, SYSGEN, Resource definition)
- **Installing** and implementing new IMS systems, new resources
- Installing and setup for IMS **tools**
- Service provider for application development (new pgms, ACBs , ...)
- Service requester for **automation** tasks
- Informations about new functions and features to all IMS users (RTEs , Language support, ...)



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The Agenda reflects ...

■ IMS overview

- IMS architecture, internal structure, principles and concepts, IMS regions, AS functions, Service layers, RTEs
- IMS as provider and supporter for workload to transactions and databases and as caller for other services

■ Administration

- IMS Administration for IMS DB/TM / DBCTL as parm setup (parm blocks) ,
- SYSGEN + ACBGEN + ONLINE CHANGE + ... **Security**

■ Installation

- Install, tailor, maintain and support an IMS DB/TM system
- IVP

~~▸ (IMS user exits design)~~

~~▸ SMP/E , updates , upgrades~~

~~▸ IMS v2v and coexistence~~

~~▸ user exit maintenance~~

■ Maintenance

■ Execution/Operation

- IMS provides and supports workload to transactions and databases. IMS Operating covers all necessary tasks and is part of the class as it comes to the IMS components.

■ Perf.&Tuning / High Availability

- Pools & buffers, ~~Error Diagnostics,~~
- Monitoring, ~~HA measures~~

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The Agenda reflects ...

■ IMS overview

■ Administration

■ Installation

■ Maintenance

■ Execution/Operation

■ Perf.&Tuning / High Availability

Classes deep dive

- IMS Parallel Sysplex Implement. Workshop: CM621xx
- IMS Par.Sysplex Overview: **KC620**
- IMS Block Level Datasharing CM25xx

Classes deep dive

- IMS DBRC: CM20xx / **KC20DBRC**
- HALDB Class (CM46xx) / **HALWS**
- IMS DB Repair: CM44xx / CM45xx
- IMS DB: **KC220** (KIECO)

Classes deep dive

IMS Installation : U3759 / CM059 /
KC500 (KIECO)

- SMP/E , updates , upgrades
- IMS v2v and coexistence
- user exit maintenance

Classes deep dive

- Operating Your IMS ENV: CM35xx
- IMS provides and support databases. IMS Operating covers all necessary Tasks.

Classes deep dive

- IMS Diagnostics: CM66xx
- IMS Debugging: **KC66Gx**
- IMS Perf. & Tuning: CM21x
- IMS DB Perform. WS **KC33**

- Pools & buffers, Error Diagnostics
- Monitoring, HA measures