



March 2011 Newsletter

Public Schedule Highlights

This is not the complete schedule, if you can't find what you seek on techknowledge.com, call your Education Rep at 410-891-1707

- March 7th GTR!** - IMS System Programming & Admin-Virtual with **Karen Tischer**
- March 7th GTR!** - CICS/TS 3.2 Debugging Workshop-Advanced
- March 21st STGTR!** z/OS MVS Entry Level System Programmer Boot Camp
- April 4 - IMS System Fundamentals
 April 4 - HSM Implementation & Customization
 April 4th - z/OS Fundamentals Boot Camp
 April 11 - UNIX Boot Camp
 April 18 - SMP/E for Installation & Maintenance
 April 18 - UNIX Shell Programming Workshop
- May 9 - IMS Fast Path Implementation
 May 23 - CICS Transaction Server Systems Administration
- June 6 - IMS DB Physical Organization
 June 6 - DB2 9 for z/OS: Database Design & Administration
 June 6 - REXX Programming Workshop
 June 13 - COBOL Programming Part 2 - Advanced level
 June 20 - Using z/OS Assembler
 June 20 - Data Communications Fundamentals-Virtual
 June 22 - An Operations Guide to z/OS-Virtual

Help Us prepare the remainder of our 2011 schedule. If you don't see the class/date you want, we can place it for you, in your preferred time frame, for as few as 2 people! But you must contact us to let us know what you want

Enroll Me Now!

Contact [Harriette Matthews](mailto:Harriette.Matthews@Metastorm.com) to obtain your course outline and enroll your personnel today.

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Instructor's Corner



IMS - IBM's Premier Information Management System – Part 2

By: Karen Tischer
IMS Instructor/Course Developer

In Part 2, we talk about the various components of IMS.

IMS has three components: Database Manager (IMS DB), Transaction Manager (IMS TM) and System Services that provide common services to both. When ordered and installed together, the system is known as IMS DB/TM (or IMS DB/DC) – a complete online transaction processing environment that provides continuous availability, data integrity, and recoverability. IMS TM with services (DCCTL) can be ordered if IMS DB is not needed. Likewise IMS DB with services (DBCTL) can be ordered when IMS TM is not needed. Today IMS runs on z/OS and on z/Series hardware.

IMS Application Programming.

Application programs using IMS functions can be written in Assembler, C/C++, Cobol, Java, Pascal, PL/I, and REXX. Accessing IMS resources is accomplished by calling IMS functions through a standard application programming interface (API) called DL/I (data language one) or, for Java, JDBC (Java database connectivity). Each new version of IMS is upward compatible so that applications written for earlier versions will run with new IMS versions without modification (in most cases), thus protecting customers' programming investments. In addition, an IMS application can also access DB2 tables using the SQL API.

IMS Open Database Access (ODBA) is a callable interface to access databases managed by the IMS Database (DB) Manager. ODBA can be used by any z/OS application program that uses the Recovery Resource Services (RRS) of z/OS as a sync point manager to access the IMS full function databases and data entry databases (DEDBs). This allows IMS DB and z/OS application programs to be developed, installed, and maintained independently of each other. z/OS application programs that use the ODBA interface are called ODBA applications and run in z/OS application regions. ODBA also provides for failure isolation and independent resource recoverability. Types of programs that can call the ODBA interface include:

- DB2 for z/OS stored procedures, including COBOL, PL/I, and Java procedures
- WebSphere® Application Server for z/OS and OS/390® Enterprise Java Beans
- Other z/OS application

Our courses that support the Application Programmer/Application Designer include: *IMS Database (DB) Coding, IMS Data Communication (DC) Coding with MFS, and IMS with DB2.*

For a complete introduction to IMS attend *IMS Systems Fundamentals on April 4th*

 **Questions?**
 Visit [TechKnowledge training website](http://TechKnowledge.training.website) or email us at
Harriette.Matthews@Metastorm.com