

IMS Remote Internship: IMS DB Performance and Tuning

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The IMS DB Performance and Tuning class will be presented using the Internet for visuals and with an available phone number for the audio. This Remote Internship will be presented by a live instructor. There will be 10 days of instruction (October 4 – 8 continuing October 11 - 15). On each day there will be about 4 hours of instruction spread over about 5 hours. Class each day will start at 10:00 AM CDT (15:00 UTC) and end about 5 hours later; because this is the first time that this class has been presented in this format, the exact class duration is not certain.

Unlike classroom instances of IMS DB Performance and Tuning, this Remote Internship version will not include “hands-on lab” exercises; instead, the instructor will show the steps performed, and machine output that a student would see, if running the lab exercises themselves.

These sessions are open to IMS Customers world-wide. All IMS Remote Internships are primarily for IBM Customers. While IBM employees may register, they should understand that Customers are given preference and IBMer registration may not be honored.

After registering for participation at:

<https://www.ibm.com/it-infrastructure/us-en/resources/campaignmail/z/ims/eventsignup.html>,

please also send the instructor (at emarek@us.ibm.com) your email address in a note that includes “IMS DB Performance and Tuning” in its title so that you can be sent the material in pdf form as well as the url and phone information for the Internship.

Additional information about the IMS DB Performance and Tuning class is as follows:

Purpose:

- This course of 10 sessions, 4 hours each day, teaches how to tune Information Management System (IMS) databases. It also teaches IMS database options that affect performance such as dataset considerations and buffering for Virtual Storage Access Method (VSAM) and Overflow Sequential Access Method (OSAM) databases.

Audience:

- This is an intermediate to advanced course for IMS system programmers, database administrators, and technical support individuals, who support and maintain IMS databases.

Prerequisites:

- *Physical Organization of Databases* (CMW22 or CM220) **or** have equivalent experience with IMS to understand IMS database design and implementation choices.

Agenda

Day 1

- Welcome: Administration
- Unit 1: Introduction to IMS Database Tuning
- Unit 2: Introduction to the Lab project

Day 2

- Unit 3: Review of Commonly Used IMS Access Methods
- Unit 4: Measuring IMS DB Performance
- Exercise 1: Lab 1 & 2 – the “Base” Case & Using IMS Database Reports

Day 3

- Lab 1 & 2 – Discussion and Review
- Unit 5: Tuning VSAM Buffers: Part 1

Day 4

- Unit 5: Tuning VSAM Buffers: Part 2
- Exercise 2: Lab 3 Tuning VSAM Buffers

Day 5

- Lab 3 – Discussion and Review
- Unit 6: Tuning VSAM Data Sets: Part 1

Day 6

- Unit 6: Tuning VSAM Data Sets: Part 2
- Exercise 3: Lab 4 – VSAM Data Set Design

Day 7

- Lab 4 – Discussion and Review
- Unit 7: Additional Performance Issues
- Unit 8: Tuning Secondary Indexes
- Exercise 4: Lab 5 – Tuning Secondary Indexes and Other Options

Day 8

- Lab 5 – Discussion and Review
- Unit 9: Tuning HDAM

Day 9

- Exercise 5: Lab 6 – Tuning HDAM
- Lab 6 – Discussion and Review
- Unit 10: Tuning OSAM Data Sets and Buffers

Day 10

- Exercise 6: Lab 7 – Last Chance and Tuning OSAM
- Lab 7 – Discussion and Review
- Unit 11: Other Considerations
- Unit 12: Database Tuning Summary