

OL95: System i Performance Analysis and Capacity Planning

Course code	OL95VN	Delivery type	Classroom (Hands-on labs)
Duration	4.0 days	Course type	Public or Private on-site
List price	Call for price		

This classroom course describes how to use the System i collection services to gather performance data. It also teaches how to use the IBM Performance Tools for System i displays and graphics to analyze system performance and overviews the capacity planner for estimating resource utilization and managing system growth.

Audience

People responsible for performance analysis and capacity planning on System i systems. Performance Tools for iSeries should be installed on at least one of your System i systems.

Pre-requisites

Before taking this course a student should be able to:

- Use performance data from the WRKSYSSTS display to adjust pool sizes and activity levels in order to tune the system
- Recognize jobs with high resource utilization on the WRKACTJOB display
- Recognize major factors which could contribute to high faulting rates and resource conflicts
- List the major components of an System i job
- Distinguish between active, long wait, and ineligible job states
- Describe the effect of run priority and timeslice on job performance

This knowledge can be gained through successful completion of "Operating System/400 Structure, Tailoring, and Basic Tuning" (OL23/OL230).

Objective

- Describe the relationship between resource utilization and response time
- Start and end the collection services and print Performance Tools for iSeries reports
- Use Performance Tools for iSeries reports, displays, and graphics to analyze system and job performance
- Understand how IBM Systems Workload Estimator can be used to assess the impact of changes in workload on, throughput and configuration

- Use Performance Tools for iSeries to analyze the effects of implementing techniques to enhance performance

Key topics

Day 1

(02:30) Unit 1 - Fundamentals of Performance

(01:30) Unit 2 - Performance Environment

(00:15) Unit 3 - Interactive Analysis

(00:30) Exercise 1 - Use the Advisor

(00:15) Lab Exercise Review

(01:00) Unit 3 - Interactive Analysis (Continued)

(00:30) Exercise 2 - Use Display Performance Data

(00:10) Lab Exercise Review

(00:20) Unit 4 - Sample Reports

Day 2

(01:15) Unit 4 - Sample Reports (Continued)

(01:15) Exercise 3 - Case Study - OL950 Sample Data Analysis

(00:30) Lab Exercise Review

(01:00) Unit 4 - Sample Reports (Continued)

(00:45) Exercise 4 - Job and System Monitors

(01:45) Unit 5 - Trace Capability

(00:30) Exercise 5 - Case Study - OL950 Trace Data Analysis

Day 3

(00:45) Exercise 5 - Case Study (Continued)

(00:15) Lab Exercise Review

(01:00) Unit 6 - Capacity Planning

(01:00) Unit 7 - Additional Analysis Aids

(01:00) Unit 8 - Performance Tips and Techniques

(00:15) Summary