



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Advanced Tools for AIX Performance Analysis

CODE:	LENGTH:	PRICE:
AN52G	32 Hours (4 days)	\$3,200.00

## Description

Develop the skills to use kernel traces, trace based utilities, and svmon to measure and analyze CPU, memory, and I/O performance issues on IBM systems running AIX. Reinforce each lecture during extensive hands-on lab exercises and get practical experience applicable to their performance management requirements.

## Objectives

- Use the trace facility to collect data and create a trace report
- Use the kernel trace facilities to analyze CPU performance issues
- Describe causes and impacts of high context switching rates
- Identify what causes a thread to be blocked and later woken up
- Explain the relationship between the output of svmon -G, svmon -P, and svmon -S
- Calculate the amount of memory in use on the system
- Explain the relationship between svmon, vmstat, and ipcs output
- Categorize the memory in use on the system by segment type
- Identify which processes are using the most memory or paging space
- Describe the characteristics of asynchronous I/O, synchronous I/O, direct I/O, and concurrent I/O
- Identify if the expected type of I/O is being executed
- Tune asynchronous I/O

## Audience

The audience for this training includes AIX technical support personnel, performance benchmark personnel, and AIX system administrators.

## Prerequisites

You are expected to have extensive AIX skills. These skills can be obtained by attending the following courses:

- AIX Power Systems for AIX IV: Performance Management (AN510) **or** have the equivalent extensive AIX skills

## Programme

### Day 1

- Welcome
- Unit 1: AIX trace facilities
- Exercise 1: AIX trace facilities
- Unit 2: Advanced memory topics - I
- Exercise 1: AIX trace facilities (Part 3)
- Exercise 2: Advanced memory topics - I

### Day 2

- Unit 3: Advanced memory topics - II
- Exercise 3: Advanced memory topics - II

- Unit 4: Advanced CPU topics - I
- Exercise 4: Advanced CPU topics - I
- (Optional) Exercise 4: Advanced CPU topics - I (Part 2)

### **Day 3**

- Unit 5: Advanced CPU topics - II
- Exercise 5: Advanced CPU topics - II
- Unit 6: Advanced I/O topics - I
- Exercise 6: Advanced I/O topics - I (Part 1)
- (Optional) Exercise 5: Advanced CPU topics - II
- (Parts 2 and 3)

### **Day 4**

- Exercise 6: Advanced I/O topics - I (Part 2)
- Unit 7: Advanced I/O topics - II
- Exercise 7: Advanced I/O topics - II
- (Optional) Exercise 7: Advanced I/O topics - II (Part 3)

## **Session Dates**

On request. Please [Contact Us](#)

## **Additional Information**

[This training is also available as onsite training. Please contact us to find out more.](#)