# Power Systems for AIX IV: Performance Management

## Duration: 5 Days  Course Code: AN51G  Delivery Method: Virtual Learning

### Overview:

Develop the skills to measure, analyze, and tune common performance issues on IBM POWER systems running AIX6.
Learn about performance management concepts and techniques and how to use of basic AIX tools to monitor, analyze, and tune an AIX6 system. The course covers how virtualization technologies such as the PowerVM environment and workload partitions affect AIX performance management. Monitoring and analyzing tools discussed in this course include vmstat, iostat, sar, tprof, svmon, filemon, netstat, lvmstat, and topas. Tuning tools include schedo, vmo, ioo, no, and nfso.
The course also covers how to use Performance Problem Reporting (PerfPMR) to capture a variety of performance data for later analysis.
Each lecture is reinforced with extensive hands-on lab exercises which provide practical experience.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

This course is for: AIX technical support personnel Performance benchmarking personnel AIX system administrators

### Objectives:

- Define performance terminology
- Describe the methodology for tuning a system
- Identify the set of basic AIX tools to monitor, analyze, and tune a system
- Use AIX tools to determine common bottlenecks in the Central Processing Unit (CPU), Virtual Memory Manager (VMM), Logical Volume Manager (LVM), internal disk Input/Output (I/O), and network subsystems
- Use AIX tools to demonstrate techniques to tune the subsystems

### Prerequisites:

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

- AIX System Administration I: Implementation (AU14)
- or Power Systems for AIX II: Implementation and Administration (AN12)

It is very helpful to have a strong background in TCP/IP networking to support the network performance portion of the course. These skills can be built or reinforced by attending:

- AIX 5L Configuring TCP/IP ( AU07 )
- or TCP/IP for AIX Administrators (AN21)

It is also very helpful to have a strong background in PowerVM (paricularly micropartitioning and the role of the virtual I/O server). These skills can be built or reinforced by attending:

- System p LPAR and Virtualization I: Planning and Configuration (AU73)
- or Power Systems for AIX - Virtualization I: Implementing Virtualization (AN30)

## Content:

Day 1

- Unit 1 - Performance Analysis and Tuning Overview
- Exercise 1
- Unit 2 Data Collection
- Exercise 2
- Unit 3 - Monitoring, Analyzing, and Tuning CPU Usage

Day 2

- Exercise 3
- Unit 4 - Virtual Memory Performance Monitoring and Tuning
- Exercise 4

Day 3

- Unit 5 - Physical and Logical Volume Performance
- Exercise 5
- Unit 6 File System Performance Monitoring and Tuning
- Exercise 6

Day 4

- Unit 7 - Network Performance
- Exercise 7

Day 5

- Unit 8 - NFS Performance
- Exercise 8
- Unit 9 - Performance Management Methodology
- Exercise 9

## Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

ilt.customerservice@globalknowledge.com

www.globalknowledge.com/en-ca/

Global Knowledge Network (Canada) Inc., 150 Knowledge Park Drive, Suite 130, Fredericton, NB, E3C 0N9