



## IBM Platform HPC Information

**Length:** 4.0 Days  
**Ref:** H080G-X  
**Delivery method:** Classroom  
**Price:** AUD

### Overview

This course teaches IBM Platform HPC version 4.2. The course is a workshop-focused, hands-on class designed to give system administrators the knowledge and confidence required to implement and maintain IBM Platform HPC in their HPC environment. You will gain a solid and fundamental understanding of the product's features, including how the product is implemented, configured, and administered. The workshops provide hands-on experience with the material presented during class.

### Public

The target audience for this basic course are System administrators who will implement the HPC cluster and who will be responsible for managing the environment.

### Prerequisites

You should have:

- At least some Linux/Unix command-line experience

No previous experience with IBM Platform products is assumed or required.

### Objective

- Define HPC cluster concepts and terminology
- Define IBM Platform HPC concepts and terminology
- List Platform HPC components
- Install Platform HPC
- Manage the Platform HPC cluster
- Provision compute nodes
- Describe the Platform HPC architecture
- Describe Platform LSF concepts
- Be able to submit and manage LSF jobs
- Describe Platform MPI concepts

- Detail on submitting and managing MPI jobs
- Explain how to integrate applications
- Detail the monitoring capabilities of Platform HPC
- Describe how to enable High Availability
- Describe how to troubleshoot and obtain support
- Describe the process for building and deploying Platform HPC kits
- Describe how to implement custom networking configuration

Topics

- Introduction to high performance computing
- IBM Platform HPC terminology
- Introduction to Platform HPC
- Installing Platform HPC
- Cluster resource management
- Provisioning and updating cluster nodes
- Advanced cluster resource management
- Platform HPC backend
- Platform LSF: Workload Scheduler
- Platform MPI
- Application integration
- Monitoring the cluster
- Platform HPC high availability
- Support and troubleshooting
- Build and deploy Platform HPC kits
- Custom networking configurations