

IBM System x Technical Principles Enhanced (XTR11GB)

Format	Classroom
Duration	3.0 Day(s)
Description	This is the entry course for all of the System x Technical Education Roadmaps, including certification, clustering, and systems management. The student will gain a thorough understanding of the design, architectures, features, and functions of IBM System x servers and IBM BladeCenter products.
Audience	Enrollment in this course is not restricted. However, typical students taking this course include technical IBM personnel from the FTSS, ATS and Techline organizations as well as business partner technical personnel involved with planning, installation, configuration and upgrading of xSeries servers and use of IBM Director systems management software.
Prerequisites	Some experience with Intel-based computer hardware and Windows or Linux operating systems).
Objectives	<p>After completing this course, you should be able to:</p> <ul style="list-style-type: none">- Define features common to IBM ServeRAID adapters- Describe current IBM ServeRAID adapter models- List the key elements of the System x memory subsystem- Identify the various System x processor options- Describe features common to System x networking subsystem- Examine the System x PCI subsystem- Provide a comprehensive overview of systems management framework and topology- List hardware and software based systems management options- Describe the major components of the Cool Blue Portfolio- Recognize and detail the highlights of the IBM System x Tower Server line- Recognize and detail the highlights of the IBM System x rack-optimized server line- Recognize and detail the highlights of the IBM System x high performance server line- Recognize and detail the highlights of the IBM BladeCenter Components- Summarize the IBM TotalStorage Entry-level Disk System product line- Summarize the IBM TotalStorage Mid-range Disk System product line- Summarize the IBM TotalStorage Enterprise Disk System product line- Introduce the concepts and considerations for rack design and implementation in the datacenter- Provide an overview of power requirements and options, including PDU selection and IBM configuration and planning tools- Introduce chassis cooling concepts- Identify the six possible states of a system- List the tools that are available to gather information for a given system state- Identify the tools that are available to analyze information for a given system state- Apply your knowledge to correctly identify a system state and list possible actions to identify faults

- Examine IBM Dynamic System Analysis (DSA) to aid in diagnosing system
- List the benefiting features of UpdateXpress, ServerGuide, and ServeRAID Manager
- Understand the tested compatibility information provided by IBM ServerProven
- Describe benefits of using the Configuration and Options Guide
- Recognize the benefit to installing the Standalone Solutions configuration Tool (SSCT)
- Describe the recommendations provided by the Sizing Guide
- Identify Dynamic System Analysis (DSA) features used to aid in diagnosing system problems
- Identify the Remote Technical Support (RTS) features that are available for the IBM family of products
- Recognize the key components listed in the System x and BladeCenter Reference sheet (XREF)
- Understand the “How-to” technical information provided in the IBM Redbooks

Contents

You will learn about key server types, functions, and their operational characteristics, features of the IBM X-Architectures, features of the IBM System x and BladeCenter line of servers, Entry-level storage options for System x servers including the ServeRAID family of adapters and the RAID levels they support, and Systems Management options.

In addition, you will participate in hands-on labs covering System Configuration, ServerGuide installation of a Network Operating System (NOS), UpdateXpress, ServeRAID Mini-Configuration, ServeRAID driver update, backing up a RAID Configuration, and ServeRAID Manager.