## Chapter 1: Introduction
You will learn:
- System architecture.
- Components that effect performance.
- Memory utilization.
- Temporary data.
- DB2 in a Sysplex environment.
- Relational database environment.

## Chapter 2: Monitoring and Reporting
You will learn:
- Topology selection criteria.
- Turning on monitoring and traces.
- Reading diagnostics traces.
- System generated statistics.
- Using the Query Monitor.
- Estimating system resources.

## Chapter 3: Hardware and DB2
You will learn:
- Key components for estimating storage requirements.
- How to use compression and its effect on performance.

## Chapter 4: Processing DB2 Transactions / Queries
You will learn:
- Installing messaging products.
- Transaction flow thru DB2.
- Differences between static and dynamic SQL.
- Effects of logging on performance.
- Logging structure.
- Processes and threads in DB2.
- Utilization of cache in DB2.
- Utilization of the RLF.

## Chapter 5: Thread Allocation and Workload Control
You will learn:
- Thread architecture.
- Setting and benefits of thread limits.
- Thread reuse - advantages.
- Monitoring threads usage and reuse.

## Chapter 6: Buffer Pools, Memory, and I/O
You will learn:
- Administrative Console.
- Buffer pools and associated I/O.
- EDM.
- Virtual storage for storage pools and its effect on performance.
- Customizing buffer pool options.
### Chapter 7: Locking and Concurrency
You will learn:
- Node management.
- DB2 locking strategy.
- Order of lock precedence.
- Effects of locks on performance.
- Committing updates.
- Database and application design considerations.
- Indexes and data-only locking.

### Chapter 8: Utilities and System Considerations
You will learn:
- Features, location and names of logs.
- DB2 Instrumentation Facility.
- QMF and its effects on performance.
- Utility considerations on locks on performance.
- Workload Manager for setting performance objectives.

### Chapter 9: Monitoring Strategy
You will learn:
- Performance management techniques.
- Monitoring scope.
- Reporting methods.
- Reporting tools.

### Chapter 10: Problem Investigation
You will learn:
- Collecting information for problem determination.
- Generating real time statistics.
- Looking at thread detail.

### Chapter 11: Optimizer, Access Paths, EXPLAIN
You will learn:
- `RUNSTATS`
- DB2 Optimizer.
- Logic of access paths.
- Evaluating SQL predicates and using the EXPLAIN statement.