

**Course Name:** System Management and Administration

**Course Code:** ISADM

**Duration:** 3 Days

**Price:** £ 1,595

**Course Outline:** This course is intended for experienced operators and support staff who are involved in managing and administering the system. The course covers H/W (manage LPARs etc.), System S/W (licensed programs, firmware, upgrade the operating system, how to load, apply and manage all types of PTF etc.). Security is covered in depth (e.g. system values, create and manage user and group profiles, object authorities, authorisation lists, auditing etc.) as is Work Management (e.g. create subsystems, customise the system, performance tuning etc.). Backup, recovery and availability of the system and effective management of the system (e.g. full saves and restores, setup and manage journaling, System and User ASPs, Independent ASPs, disk protection, manage and reduce disk storage capacity etc.) are all covered.

**Prerequisites:** Ideally delegates will have attended the Advanced Operations course (ISOPA) or have the equivalent hands on experience.

**Course Content:**

- Detail the key design principles and architecture of the system
- Display and manage HW resources using CL commands
- Introduce the key concepts of Logical Partitioning (LPAR)
- Understand the benefits of LPAR and how it can be used
- Manage LPARs (CPU, Memory, IPLs, backups, fixes, VIOS etc.)
- Detail and manage licensed programs
- Detail software maintenance and working with license information
- Display and manage server firmware and HMC firmware
- Detail how to upgrade the operating system (planning, pre-upgrade tasks, the upgrade process, post upgrade tasks etc.)
- Learn how to load and apply PTFs, group PTFs and cumulative PTFs

- Manage PTFs (PTF order methods, copy/display/remove PTFs etc.)
- Detail the useful tools in Navigator for managing PTF's
- How to setup and use image catalogues to install PTFs
- Detail Technology Refreshes
- Understand and work with system values
- Manage system values across servers
- Detail the security related system values
- How to setup and manage system, object and user profile auditing
- Analyse audit entries
- How to create/change/copy/delete/display/print and manage user and group profiles using CL commands and Navigator
- Additional commands to manage user profiles (automatically disable/delete user profiles, default passwords, change object ownership, schedule the availability of user profiles etc.)
- How to recover the QSECOFR password
- Detail how object authority works
- Detail the 10 authorities to an object and how to assign authorities
- How Public authority is assigned
- Create and manage authorisation lists to secure objects
- Use the security tools menus
- How the system authenticates a user to an object
- How to secure the IFS (i.e. directories, objects, file shares etc.)
- Introduction to work management (how work enters and is processed by the system, customising the work environment etc.)
- How to create and modify subsystems (subsystem descriptions, work entries, routing entries etc.)
- Create and work with job descriptions and classes. Understand how user profiles, job descriptions and job classes interrelate
- Detail how system storage pools work and how to change pool sizes and activity levels
- How to tune the system for good performance (page fault rates, job transitions, the performance adjuster etc.)
- Detail the work management related system values
- Detail the key backup, recovery and availability options (e.g. full system backups, restoring the system, commitment control, access path protection, high availability options, disk protection, System and User ASP's, Independent ASP's)

- How to set up and manage the journaling of files, access paths, libraries etc.
- Key commands to analyse and manage disk storage capacity
- Manage disk storage capacity problems
- Key housekeeping tasks to reduce disk storage capacity (reorganise files, reclaim storage, the cleanup menu and other key options for clearing down data etc.)

**Follow on Courses:** We recommend that after a suitable period of time after attending this course (e.g. 6 months hands on experience) delegates may want to enhance the knowledge they have gained by attending the System Facilities (ISSFC) or CL programming (ISCLP) course depending on the job role of the delegate.

**Schedule:**

2025

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Dates for this course will be scheduled on demand so please email or call for further details.