SAS Platform Administration for SAS 9 exam

Managing the SAS Environment: 15%

- **Secure a SAS platform configuration.**
    - o Use operating system controls to protect the SAS configuration directory.
- **Update SAS Software**
    - o Regularly manage and apply hot fixes.
    - o Apply SAS maintenance packs.
    - o Perform SAS license updates.

- **Work with the SAS Metadata Server.**
    - o Configure the initial metadata server to use the network location for backups and the service login account.
    - o Configure the SAS Metadata Server cluster
    - o Install and configure additional metadata server nodes
    - o Manage metadata repositories
    - o Initial authentication to the metadata server
    - o Explain the importance of journaling

- **Promote metadata and associated content.**

Monitoring, Logging, and Troubleshooting SAS Servers: 15%

- **Monitor SAS servers.**
    - o Monitor workspace servers and stored process servers.
    - o Use the SAS Environment Manager to view server resources.
    - o Set alerting and escalation functionality
- **Administer SAS server logging and modify logging configurations.**
    - o Change logging levels and locate logs.
    - o Enable trace logging.
    - o Explain the difference between default logging and customized logging.
    - o Utilize dynamic logging.
- **Troubleshoot basic SAS server issues such as server availability.**
    - o Utilize alerts for monitoring
- **Identify the properties and functionality of SAS servers.**
    - o Identify startup order of SAS servers.
    - o Explain the functionality of the object spawner.

o Use the Server Manager plug-in to monitor SAS servers.
o Use Environment Manager to evaluate the resources available on the SAS servers.

Backing Up the SAS Environment: 8%

▪ **Backup and restore the SAS environment.**
  o View backup and recovery history.
  o Run an immediate (ad hoc) backup.
  o Customize backups.
  o View information about backup and recovery sources.
  o View and modify the backup schedule.
  o Perform full or partial recovery from one of the backups.
  o Determine when to specify a central vault location.
  o Explain the limitations of the Deployment Backup and Recovery tool.
  o Use the SAS Backup Manager in Environment Manager to perform backups.
  o Use the Roll forward option with metadata backups.
  o Explain the role of the Deployment agent in the backup.
  o Use scripts and system utilities to backup metadata

▪ **Backup and restore Metadata.**
  o Run an immediate (ad hoc) backup.
  o Recover the metadata.
  o Use the backup facility in SAS Management Console.
  o Configure the backup properties.
  o View and modify the backup schedule.
  o Reorganize properties.

Administering Users: 22%

• **Manage connection profiles.**
• **Register users and groups in the metadata.**
  o Manage administrative access to the metadata.
  o Manage roles
  o Manage internal SAS accounts
• **Determine when to store passwords in the metadata**
• **Give users access to processing servers and data servers**
• **Identify SAS server authentication mechanisms.**

Administering Data Access: 20%

- **Register libraries and tables in the metadata.**
- **Update table metadata.**
- **Pre-assign a library.**
- **Troubleshoot data access problems.**
- **Use the metadata LIBNAME engine.**

Managing Metadata Authorization: 20%

- **Identify how the metadata authorization layer interacts with other security layers.**
- **Identify where, how, and to whom metadata permissions are assigned.**
- **Determine the outcome of metadata authorization decisions.**
- **Use metadata permissions to secure metadata**
  - Use the metadata folder structure to manage access to metadata.
- **Create and use Access Control Templates.**