



Synapse System Administration Advanced Course Syllabus

Day One – Monday

9:00 AM

Topic: Introductions

Instructor and class introductions
Goals of the course – Review Syllabus

Topic: Virtualization Fundamentals

Advantages of virtualization
Typical Synapse PACS installations
Performance monitoring tools
The training platform used for this course

BREAK

10:30-10:45 AM

Topic: Review of Synapse PACS 5 Architecture

Dataflow: Scheduled Studies, Modality Worklist
Synapse legacy comparative evaluation

Topic: Synapse PACS DicomServer

DicomServer Properties Pages
Enabling Debugging Logs
Logging Verbosity

Lunch

12:00 PM-1:00 PM

Topic: Synapse 5 Client Requirements

Supported browsers
Add-ons and extensions
Browser configurations

BREAK

2:30-2:45 PM

Topic: Synapse 5 Client Evaluation

New features
Folders versus worklists
Snapshots
Synapse help

End of Day

5:00 PM

Advanced Course Syllabus

Day Two – Tuesday

9:00 AM

Topic: SWAT – Overview

Home, Sections, Help, Find Anything, What's New, About, Release Notes, Display Color

Topic: SWAT – Dashboard

Overview – Most Recently Viewed, Default Configuration, Only Studies, Only Today's Opened Studies
Studies – Unread by Modality, Sender; By Modality, Sender; Last Hour, Today, Opened Today, Queued
Sessions – Current User Sessions, Historical User Sessions
Database – Layout, Options
Forwarding – Layout, Categorical population
DICOM – Acquisition Devices, Receivers
System Model – Graphical, Tabular, Trending Storage
Turnaround – By Modality, By Modality with Priority, By Modality with Location, etc.
Logging – Recent Event Log, Recent Study Activity, Recent Data Access
Commands
More – Plugins, Speed Test, SSL, Synapse License

BREAK

10:30-10:45 AM

Topic: SWAT – Clients

Tuning – Flags, Durations, Other
Workstation – Folders, Overlays, Priority Codes, PowerJacket Statuses, Workflow, URL Configuration, PowerJacket Buttons, Configurable Tools Menu, Dictation
Banner Configuration, Desktop Agent, Integrations
DICOM – Acquisition, Archives, Query/Retriever, Event Based Forwarding, Destinations
HIIS – Bidirectional configuration
Reporting – Configure RIS Reports and Notes, Canned Notes
Cache Server

Lunch

12:00 PM-1:00 PM

Topic: SWAT – System

Tuning – Flags, Durations, Other, Location, Viewer Service
DBA Tasks – Auditing, Statistics, Data Guard, Notification, Tools, etc.
Login – Configure, Users, Roles, SWAT Roles, Bulk Role Transfer, Secure URL, Active Directory, Web Applications, Sessions, Failed Logins
Storage – Configure, Server, Object Type
Manage Deletion – By Storage Path, Automated Content Deletion

BREAK

2:30-2:45 PM

Topic: SWAT – System (continued)

Mapping – Procedures, Body Parts, FCR, Series Display Names, Series Standardization, Series Description Download, Built-in Services, Actions, Viewer Toolbar Icon
Utilities – Image File Search, Update Study Status, Matching Algorithms, Sites, Grant Snapshot, Revoke Snapshot, Document Scanning, Content Management

End of Day

5:00 PM

Advanced Course Syllabus

DAY THREE – Wednesday

9:00 AM

Topic: SWAT – System (continued)

Logging – Configure Event Logs, All Events, Study Events, Data Access Logs, Data Exception, Data Trace Logs, Threshold Logs, User Logs
Admin Report – Layout, Usage

Topic: SWAT – Enterprise

Datasources
Languages

BREAK

10:30-10:45 AM

Topic: Reading Protocols

Introduction to Custom Reading Protocols
Types of Reading Protocols
Protocol Creation Strategies
Using the Reading Protocol Editor (RPE)
Managing Protocols
Exercises:
 Creating/Editing Protocols
 Copying Reading Protocols
 Importing/Exporting

Lunch

12:00 PM-1:00 PM

Topic: Reading Protocols (continued)

Mammo Protocols
Synapse settings
 Reading Protocols - Extra Series, MG Near-Match, Dynamic Layout

Topic: Series Standards

Principles and Important of Series Standardization
SWAT Standardization
Synonyms Auto-compare capabilities
Functional Comparison (Legacy vs. Synapse 5)

BREAK

2:30-2:45 PM

Topic: Related Procedure Codes

Importance of maintaining RPC table
User-defined related procedures
Duplicating and managing user tables
Using the related body parts tool
Synapse settings
 Reading Protocols - Auto Compare

End of Day

5:00 PM

Advanced Course Syllabus

Day Four – Thursday

9:00 AM

Topic: Synapse Client Settings
Context Driven
Administrator Mode (Enterprise, Role, and User Settings)
Image Display
Annotations, Cross Reference, Mouse,
Overlays, Series, True Size Calibration
Reading Protocols
Auto Compare, Extra Series, MG Near-Match,
Dynamic Layout

BREAK

10:30-10:45 AM

Topic: Synapse Client Settings (continued)
Workflow
Interpretation Workflow,
Dictation Preferences

Topic: Synapse Power Jacket Properties
Default Display
Datasource Selection

Lunch

12:00 PM-1:00 PM

Topic: Synapse Mobility
An introduction to Synapse Mobility
Practical applications
Demonstrating functionality
on an iPad
on an Android device
on a thin client workstation

BREAK

2:30-2:45 PM

Topic: Synapse CD Import Tool
Acquiring a copy of this tool Practical uses
Porting studies from other PACS
Creating anomalous studies for training
Fixing broken studies

End Day

5:00 PM

Advanced Course Syllabus

Day Five – Friday

9:00 AM

Topic: Third Party Tools

HL7 Parsing Tool
Modality Simulator
Document Scanning Simulator

Topic: Upgrade Planning and Product Testing

Internal/External communication
Product Testing
Training Plan Development
Project Planning

Topic: Question/Answer Review

Any topics/subjects presented

Topic: Synapse PACS Administration Certification Test

Time allocated: 1.0 hours

End of Day

12:00 PM

A Certificate of Completion will be awarded to all attendees who achieved perfect attendance during the five day course and passed the written certification test.

If you are a member of the ASRT (American Society of Radiologic Technologists), achieved perfect attendance during the five day course and have passed the Synapse System Administration certification test, you are entitled to receive 28.75 CE credits for completing this ASRT approved course.

>>> HAVE A SAFE TRIP HOME <<<