

❖ Cache Objects

- ❖ Class Reference
- ❖ Class Inspector
- ❖ Inheritance
- ❖ Persistence
- ❖ Indexes
- ❖ Collections
- ❖ %Status
- ❖ Introspection
- ❖ \$System

❖ Advanced Topics

- ❖ Dates
- ❖ SQL
- ❖ Streams
- ❖ XML
- ❖ Web Services
- ❖ CSP

❖ HL7

- ❖ Overview & Standards
- ❖ Ensemble HL7 Schemas
- ❖ Customising HL7 Schemas
- ❖ HL7 Services
- ❖ Virtual Messages
- ❖ HL7 Routers
- ❖ HL7 DTL Transformations
- ❖ HL7 Custom Transformations
- ❖ HL7 Operations
- ❖ Searching HL7 Messages
- ❖ Acknowledgements
- ❖ HL7 Query Messages



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Practical Ensemble & Ensemble Healthcare

5 Day Instructor-led Course

- **Course Description**
- Practical Ensemble & Ensemble Healthcare is an intensive 5 day hands-on course.
- Students will gain a solid foundation in Ensemble to an intermediate level whilst gaining an appreciation for more advanced topics.
- The course takes a very practical approach to Ensemble with instructor-led demonstrations and real world exercises.
- In particular the course takes an in-depth look at HL7 and Ensemble healthcare solutions using Ensemble.
- At the end of the course Students will be able to design and develop sophisticated Ensemble Productions, understand HL7 and use Ensemble to provide healthcare solutions.

- **Who Can Benefit**
- The course is aimed at software developers who want to gain a practical understanding of Ensemble and Ensemble for healthcare.

- **Prerequisites**
- The student will have a basic understanding of Ensemble and Cache Object Script.

- **Skills Gained**
- Develop Ensemble productions to an Intermediate level
- Solve real world integration problems
- Gain an understanding of advanced Ensemble topics
- Understand HL7
- Develop healthcare solutions using HL7
- Customise Ensemble

Course Outline

❖ Ensemble

- ❖ Installation
- ❖ Tools
- ❖ Namespaces

❖ Productions

- ❖ Overview
- ❖ Ens.Director
- ❖ Creating
- ❖ Managing & Monitoring
- ❖ Deploying

❖ Inbound Adapters

- ❖ Ens.InboundAdapter
- ❖ Prebuilt Adapters
- ❖ Customised Adapters

❖ Services

- ❖ Ens.BusinessService
- ❖ Customised Services
- ❖ Passthrough Services
- ❖ HL7 Services
- ❖ Adapterless Services

❖ Messages

- ❖ Ens.Request
- ❖ Ens.Response
- ❖ Ens.StringContainer
- ❖ Ens.StreamContainer

❖ Outbound Adapters

- ❖ Ens.OutboundAdapter
- ❖ Prebuilt Adapters
- ❖ Customised Adapters

❖ Operations

- ❖ Ens.BusinessOperation
- ❖ Customised Operations
- ❖ Passthrough Operations
- ❖ HL7 Operations

❖ Alerts

- ❖ Ens.Alert
- ❖ Ens.AlertRequest
- ❖ Built in Alerts
- ❖ Manual Alerts
- ❖ Ens.Alert Router
- ❖ Ens.Alert Emailer

❖ Processes

- ❖ Ens.BusinessProcess
- ❖ Customised Processes

❖ Transformations

- ❖ Advanced DTL
- ❖ Extending
Ens.DataTransformDTL
- ❖ Raising Alerts

❖ Routers

- ❖ Rules
- ❖ Rules Log
- ❖ Catch all Rules

❖ BPL

❖ Logging

❖ Debugging

❖ Workflow

❖ Dashboards

