

## Catalog of InterSystems Change Control (CC) Training Courses

The InterSystems Change Control Training Catalog lists specific courses which will be available in an online and classroom-style formats. These courses are intended to be pieced together into Programs which are tailored to different roles within InterSystems as well as within our customer and partner organizations.

1. [ICC100: Introduction to Change Control](#)
  - Introduction to Change Control
  - Change Control: Real Life Examples
  - Change Control Processes
2. [ICC110: Change Control at InterSystems](#)
  - InterSystems Change Control Tools
  - InterSystems Products and the Culture of Change Control
  - Change Control and ARIES
  - Change Control and the Customer's Responsibilities
3. [ICC200: Introduction to CCR](#)
  - Background of CCR
  - CCR Environments and Systems
  - Introduction to CCR Usage Tiers
  - CCR Transport Basics
  - Introduction to CCR Online and the CCR Workflow
  - **Exercise: Navigating CCR**
4. [ICC300: Introduction to CCR Tier 0](#)
  - CCR Tier 0: Documentation and Workflow
5. [ICC310: CCR Tier 0 - Usage Basics](#)
  - The Fundamentals of a CCR
  - CCR PREP Phase
  - CCR BASE Phase (Part 1)
  - Peer Reviews
  - CCR BASE Phase (Part 2)
  - CCR TEST Phase
  - CCR LIVE Phase
  - **Exercise: Update a Caché user FullName in Tier 0 CCR controlled system**
6. [ICC320: CCR Tier 0 - Configuring System Details](#)
  - General System Settings
  - Environment Details
  - Advanced Controls
  - System Architects
  - **Exercise: Create a System**

7. [ICC330: CCR Tier 0 - Auxiliary Tools and Transitions](#)
  - Reassigning CCRs
  - Leveraging Peer Reviews
  - Merge Tools
  - Cloning
  - **Exercise: Peer Review and Additional Transitions**
8. [ICC340: CCR Tier 0 – Project Management](#)
  - Linking to Related Records
  - Groups
  - CCR Email Notifications
  - CCR Reports
  - **Exercise: Groups and Reports**
9. [ICC350: CCR Tier 0 – Standard Changes](#)
  - Standard Changes
  - Standard Changes within CCR
  - Implementing Standard Changes
  - **Exercise: Creating and Expiring a Standard Change**
10. [ICC400: Introduction to CCR Transport](#)
  - CCR Transport: Getting Items from Here to There
  - CCR Client Tools
  - CCR Transport Architecture
11. [ICC410: CCR Transport – Perforce Basics](#)
  - Source Control
  - Perforce Architecture
  - Installing and Configuring the P4V Client
  - Perforce Concepts
  - Perforce at InterSystems
  - Moving Changes between Branches
  - Tools for Developing and Maintaining Software
  - **Exercise: Basic Editing and Merging via p4V**
12. [ICC420: CCR Transport – Items and ItemSets](#)
  - Perforce and the CCR Record
  - CCR Transport Review
  - Perforce User Actions
  - Moving Changes Between Perforce Branches
  - Understanding ItemSets
  - The CCR Source Workspace
  - Backing out a CCR
  - The Importance of Baselineing
  - Customizing ItemSet Load Logic
  - **Exercise: CCR Perforce Details Pane**

13. [ICC430: CCR Transport - Client Configuration](#)
  - Introduction to CCR Client Configuration
  - Creating a CCR To Configure the Client
  - Updating the CCR Client Tools
  - Additional Client Configuration Considerations
  - **Exercise: Run Configure^%buildccr**
14. [ICC440: CCR Transport – System Topology](#)
  - Changing System Workflow
  - Selecting a BASE Topology
  - Implementation Specific Workflows
15. [ICC450: CCR Transport - Best Practices and Debugging Techniques](#)
  - Fixing Workflow Issues
  - Solving Issues with Missing ItemSets
  - **Exercise: Practice Basic Debugging Techniques**
16. [ICC460: CCR Transport - Perform Debugging and Advanced Topics](#)
  - Advanced Perform Concepts
  - Moving a Cancelled Changelist to a new CCR
  - Backout Changes Using Perform
  - Fixing Integration History with p4 integrate -f
  - Perform Refresh
  - **Exercise: Practice Advanced Debugging Techniques**
17. [ICC470: CCR Transport - Release Management](#)
  - Understanding Release Management
  - Configuring the System for Release Management
  - **Exercise: Release Details**
18. [ICC500: Introduction to CCR Tier 1](#)
  - CCR Tier 1: Working with Custom Source Items
19. [ICC510: CCR Tier 1 - Usage Basics](#)
  - Quick Concept Review
  - CCR PREP Phase
  - CCR BASE Phase: Making Changes
  - CCR BASE Phase: Tools for Developers
  - CCR BASE Phase: Submitting Changes
  - Moving to TEST Environment
  - Test, Review, Deploy, Repeat
  - **Exercise: Add yourself to Class List in Tier 1 CCR controlled system**
20. [ICC520: CCR Tier 1 – Baseline Source Code](#)
  - Baseline Overview
  - Simple Baseline
  - AutoBaseline Script
  - Perform Baseline Batch File Script
  - Loading Source with CCR Refresh
  - **Exercise: Baseline and Rebaseline a System**

21. [ICC530: CCR Tier 1 – Interoperability Components](#)
  - Change Control considerations for interoperability components.
  - Interoperability management portal hooks.
  - **Exercise: Tier 1 CCR for Production, Routing Rule, and System Default Settings.**
22. [ICC540: CCR Tier 1 – HealthShare](#)
  - Secondary Environments for HealthShare
  - Change Control considerations for HealthShare suite of products
23. [ICC600: Introduction to CCR Tier 2](#)
  - CCR Tier 2: Working with TrakCare Configuration
  - TCC and ElementXML
24. [ICC610: CCR Tier 2 - Usage Basics](#)
  - CCR Tier 2 Review and Background
  - TrakCare Change Control Menu
  - TrakCare Environment Configuration
  - Change Session Usage
  - TrakCare Bundle & Upload ItemSet
  - Predicting GUID Loads
  - TrakCare ItemSet Deployment
  - TrakCare Download & Load ItemSet
  - Recreate ItemSet
  - GUIDs and ElementXML
  - CCR Best Practice Guidelines
  - When CCRs Go Bad
  - Change Control Related Incidents within iService
  - **Exercise: Add Care Provider in CCR Tier 2 controlled system**
25. [ICC615: CCR Tier 2 - Debugging Basics](#)
  - Undo changes
  - Cancel Tier 2 CCR
  - Anatomy of GUIDs and ElementXML
  - Introduction to Debugging Tier 2 CCRs
  - Understand meaning and resolution for:
    - Uploading to incorrect system
    - Missing GUID
    - GUID Conflict
    - Recreate ItemSet for Server
    - iService Guidelines
  - **Exercise: Encounter and Resolve Missing GUID conflict**
26. [ICC620: CCR Tier 2 – Baseline TrakCare Configuration](#)
  - Baseline Overview
  - AutoBaseline Script For TrakCare Config
  - Perforce Baseline Batch File Script
27. [ICC630: CCR Tier 2 – Debugging and Advanced Topics](#)

- Explain an advanced understanding of TCC and ElementXML
- Discuss the complex data structures used in TCC
- Debug and resolve advanced issues encountered with TCC
- Implement CCR for TrakCare Analytics
- **Exercise: Advanced Debugging**

## Role-Based Programs for CCR Users

The following Programs have been created from the Course Catalog in order to capture those Courses which should be Required (R) or Optional (O) for a given Role. The Role name indicate that they are an InterSystems role (I), a Customer role (C), or a Role which could be InterSystems or Customer (I/C)

Courses / Roles	Project Manager (I/C)	TrakCare Application Specialist (I/C)	External Developer (C)	TrakCare Technical Specialist (I)	TrakCare Support (I)	Managed Services (I)	Internal Application Developer (I)
<a href="#">ICC100: Introduction to Change Control</a>	R	R	R	R	R	R	R
<a href="#">ICC110: Change Control at InterSystems</a>	R	R	R	R	R	R	R
<a href="#">ICC200: Introduction to CCR</a>	R	R	R	R	R	R	R
<a href="#">ICC300: Introduction to CCR Tier 0</a>	R	R	R	R	R	R	R
<a href="#">ICC310: CCR Tier 0 - Usage Basics</a>	R	R	R	R	R	R	R
<a href="#">ICC320: CCR Tier 0 - Configuring System Details</a>			O	R	R	R	O
<a href="#">ICC330: CCR Tier 0 - Auxiliary Tools and Transitions</a>		R	R	R	R	R	R
<a href="#">ICC340: CCR Tier 0 - Project Management</a>	R	O	O	O	O	O	O
<a href="#">ICC350: CCR Tier 0 - Standard Changes *</a>	R	O	O	O	R	R	O
<a href="#">ICC400: Introduction to CCR Transport</a>	R	R	R	R	R	R	R
<a href="#">ICC410: CCR Transport - Perforce Basics</a>				R	R	R	R
<a href="#">ICC420: CCR Transport - Items and ItemSets</a>		R	R	R	R	R	R
<a href="#">ICC430: CCR Transport - Client Configuration *</a>			O	R	R	R	R
<a href="#">ICC440: CCR Transport - System Topology *</a>			O	O	R	R	O
<a href="#">ICC450: CCR Transport - Best Practices &amp; Debugging Techniques *</a>		R	R	R	R	R	R
<a href="#">ICC460: CCR Transport - Perforce Debugging &amp; Advanced Topics *</a>				R	R	R	R
<a href="#">ICC470: CCR Transport - Release Management *</a>	R	O	O	O	O	O	O
<a href="#">ICC500: Introduction to CCR Tier 1</a>	R	R	R	R	R	R	R
<a href="#">ICC510: CCR Tier 1 - Usage Basics</a>			R	R	R	R	R
<a href="#">ICC520: CCR Tier 1 - Baselining Source Code *</a>			O	R	R	R	R
<a href="#">ICC530: CCR Tier 1 - Interoperability Components</a>	O		O	R	R	R	O
<a href="#">ICC540: CCR Tier 1 - HealthShare *</a>	R		R	R	R	R	O
<a href="#">ICC600: Introduction to CCR Tier 2</a>	R	R	R	R	R	R	R
<a href="#">ICC610: CCR Tier 2 - Usage Basics</a>	O	R		R	R	O	
<a href="#">ICC615: CCR Tier 2 - Debugging Basics</a>	O	R		R	R	O	
<a href="#">ICC620: CCR Tier 2 - Baselining TrakCare Configuration *</a>		O		R	R	O	
<a href="#">ICC630: CCR Tier 2 - Debugging and Advanced Topics *</a>	O	O		R	R	O	

\* - indicates the course is not a prerequisite to later courses, and can be take any time the prior courses have been completed