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 Baselining
    - 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 - Perforce Debugging and Advanced Topics**
    - Advanced Perforce Concepts
    - Moving a Cancelled Changelist to a new CCR
    - Backout Changes Using Perforce
    - Fixing Integration History with p4 integrate -f
    - Perforce 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 – Baselining Source Code**
    - Baselining Overview
    - Simple Baselining
    - AutoBaseline Script
    - Perforce 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 – Baselining TrakCare Configuration**
    - Baselining 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)
ICC100: Introduction to Change Control	R	R	R	R	R	R	R
ICC110: Change Control at InterSystems	R	R	R	R	R	R	R
ICC200: Introduction to CCR	R	R	R	R	R	R	R
ICC300: Introduction to CCR Tier 0	R	R	R	R	R	R	R
ICC310: CCR Tier 0 - Usage Basics	R	R	R	R	R	R	R
ICC320: CCR Tier 0 - Configuring System Details			O	R	R	R	O
ICC330: CCR Tier 0 - Auxiliary Tools and Transitions		R	R	R	R	R	R
ICC340: CCR Tier 0 – Project Management	R	O	O	O	O	O	O
ICC350: CCR Tier 0 – Standard Changes *	R	O	O	O	R	R	O
ICC400: Introduction to CCR Transport	R	R	R	R	R	R	R
ICC410: CCR Transport – Perforce Basics				R	R	R	R
ICC420: CCR Transport – Items and ItemSets		R	R	R	R	R	R
ICC430: CCR Transport - Client Configuration *			O	R	R	R	R
ICC440: CCR Transport – System Topology *			O	O	R	R	O
ICC450: CCR Transport - Best Practices & Debugging Techniques *		R	R	R	R	R	R
ICC460: CCR Transport - Perforce Debugging & Advanced Topics *				R	R	R	R
ICC470: CCR Transport - Release Management *	R	O	O	O	O	O	O
ICC500: Introduction to CCR Tier 1	R	R	R	R	R	R	R
ICC510: CCR Tier 1 - Usage Basics			R	R	R	R	R
ICC520: CCR Tier 1 – Baselining Source Code *			O	R	R	R	R
ICC530: CCR Tier 1 – Interoperability Components	O		O	R	R	R	O
ICC540: CCR Tier 1 – HealthShare *	R		R	R	R	R	O
ICC600: Introduction to CCR Tier 2	R	R	R	R	R	R	R
ICC610: CCR Tier 2 - Usage Basics	O	R		R	R	O	
ICC615: CCR Tier 2 - Debugging Basics	O	R		R	R	O	
ICC620: CCR Tier 2 – Baselining TrakCare Configuration *		O		R	R	O	
ICC630: CCR Tier 2 – Debugging and Advanced Topics *	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