2019 CHC Pre-Conference Workshops

October 3-6, 2019 • Kansas City, MO
<table>
<thead>
<tr>
<th>Workshop title</th>
<th>Workshop date(s) and time(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cerner Millennium: Discern Expert Design, Build, and Troubleshooting</td>
<td>Thursday, Oct. 3 - Saturday, Oct. 5 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: Discern Explorer Intermediate</td>
<td>Thursday, Oct. 3 - Saturday, Oct. 5 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: Discern Explorer Advanced</td>
<td>Thursday, Oct. 3 - Saturday, Oct. 5 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: Design and Build Queries and Reports using Discern Analytics 2.0</td>
<td>Thursday, Oct. 3 - Saturday, Oct. 5 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: Medication Concepts</td>
<td>Saturday, Oct. 5 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: mCDS – Making Clinical Alerts Meaningful</td>
<td>Sunday, Oct. 6 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner P2Sentinel®: Accelerating your usage of Audit Data</td>
<td>Sunday, Oct. 6 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Cerner Millennium: Registration Rules</td>
<td>Friday, Oct. 4 - Sunday, Oct. 6 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>uCern: Collaborate, Learn, Share and Innovate</td>
<td>Sunday, Oct. 6 8:30 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>724Access DTV Maintenance, Monitoring, and Solution Settings</td>
<td>Sunday, Oct. 6 8:30 a.m. - 4:30 p.m.</td>
</tr>
</tbody>
</table>
Cerner Millennium: Discern Expert Design, Build, and Troubleshooting

Course description:

The Cerner Millennium: Discern Expert Training is a three-day class that covers the design, build, and troubleshooting concepts that can be applied to all types of Discern Expert Modules (rules). Topics include: working with Discern Development Environment and the Expert System Tool, troubleshooting, using action groups, and Discern Notify.

Learning Objectives:

- Understand and utilize applications associated with Discern Expert
- Become familiar with Discern Expert terminology
- Understand Discern Expert servers
- Learn to utilize Action Groups appropriately
- Be able to troubleshoot Discern Expert modules (rules)
- Creating Discern Expert modules (rules) utilizing the Discern Development Environment
- Working with the Discern Expert servers using the Expert System Tool
- Steps to build a module (rule)
- Using substitution values within modules
- Understanding Action Groups
- Basic configuration and use of Discern Notify
- Troubleshooting Discern Expert modules

Prerequisites:

- Basic Millennium experience is recommended
- Discern Expert Discern Development Environment WBT (preferred)

Course length and price:

- 3 days; Thursday, Oct. 3 - Saturday, Oct. 5; 8:30 a.m. - 4:30 p.m.; $2,070 per person

Maximum Capacity: 14 participants
Cerner Millennium: Discern Explorer Intermediate

Course description:
The Cerner Millennium: Discern Explorer Intermediate class is a three-day class covering technical programming concepts including the following topics: in-depth coverage of the SELECT command, JOIN options, creating reports using multiple reporting tools and techniques, creating and working with variables, looping statements, conditional statements and a high level overview of Record Structures and efficiency testing. The course contains many hands on exercises for plenty of practice.

This course is intended for those that want more in-depth knowledge of Discern Explorer to increase skill level writing queries and programs. It is important to have mastered the topics covered in the Discern 1 WBT and allow enough time to practice the concepts before enrolling in the Intermediate class. Enrolled participants are expected to already have a good understanding of basic Discern Explorer concepts such as linking tables, writing basic queries, using qualifications and using Report Writer for processing.

Target Audience:
- Implementation team members
- Application Super Users

Learning Objectives:
- Write programs using join options, outer joins and nested selects.
- Build advanced reports using variables, conditional statements, looping statements, and multiple logical groups.
- Develop advanced programming skills.
- Explore Discern Explorer features in Cerner Millennium.

Prerequisites:
- Discern Explorer I WBT

Course length and price:
- 3 days; Thursday, Oct. 3 - Saturday, Oct. 5; 8:30 a.m. - 4:30 p.m.; $2,070 per person

Maximum Capacity: 14 participants
Cerner Millennium: Discern Explorer Advanced

Course description:
This 3-day course covers advanced technical programming concepts including in-depth coverage of creating, using and joining to record structures, variable scoping, subroutines, advanced aggregate and statistical processing, creating user-defined tables, unions, inline selects, creating custom error messages and efficiency testing and research.

This course is intended for those who will be writing complex Discern Explorer programs and offers various hands-on exercises. Enrolled participants are expected to already have a very good understanding of Discern Explorer and can effectively write queries and reports using DVDev. Plan on a fast paced highly technical experience.

Target Audience:
- Implementation team members, application Super Users

Learning Objectives:
- Apply knowledge of record structures to Discern Explorer programs.
- Analyze the efficiency of Discern Explorer programs.
- Create and maintain user-defined tables.
- Develop advanced programming skills

Prerequisites:
- Cerner Millennium: Discern Explorer 1 WBT
- Cerner Millennium: Discern Explorer Intermediate

Course length and price:
- 3 days; Thursday, Oct. 3 - Saturday, Oct. 5; 8:30 a.m. - 4:30 p.m.; $2,385 per person

Maximum Capacity: 14 participants
Cerner Millennium: Design and Build Queries and Reports using Discern Analytics 2.0

Course description:

This 3 day course introduces the Discern Analytics 2.0 reporting solution, and covers basic query creation in DA 2.0, including building joined queries, data cubes, and DA 2.0 Interactive Analysis Cubes. The course also introduces basic report building and formatting, DA 2.0 metadata concepts, application security within DA 2.0, and an introduction to the Discern Administrator tool.

This course is intended for those who will be building, running, or maintaining basic reports or queries Discern Analytics 2.0, and offers various hands-on exercises. Enrolled participants are not expected to have any prior Millennium, Discern experience, or prior experience working with a relational database, but a basic understanding of Millennium, including the Millennium Fundamentals course, is recommended.

Target Audience:

- Implementation Team member
- Application Super user
- Persons who need to run, build or maintain reports in DA 2.0

Learning Objectives:

- Build queries, data cubes, and report programs using basic join options.
- Build reports that use custom sorting, grouping, and aggregate data, including crosstabs.
- Learn about report maintenance in DA 2.0, including application security and report scheduling.
- Understand basic DA 2.0 metadata concepts, including Owner Groups and Logical Views and Troubleshoot DA 2.0 errors when running queries or reports.
- Troubleshoot DA 2.0 errors when running queries or reports.

Prerequisites:

- Basic Millennium experience is recommended

Course length and price:

- 3 days; Thursday, Oct. 3 - Saturday, Oct. 5; 8:30 a.m.-4:30 p.m.; $1,755 per person

Maximum Capacity: 14 participants
Cerner Millennium: Medication Concepts

Course description:

This workshop will cover the concepts, foundations, and Model recommendations of how medications are set up in Millennium and work with clinical decision support, ordering, and pharmacy. It will help you to identify problems with medication build. The workshop will go into detail how to maintain medication build. It will also go into detail about dose range checking (DRC).

Target Audience:
- Pharmacy Staff
- Physicians, Nurses
- IT Staff

Learning Objectives:
- Understand Multum CKI's and their role in Millennium
- Understand Model recommendations for medication build
- Understand the integration of medications within Millennium for ordering
- Understand the integration of medications within Millennium for clinical decision support
- Ability to maintain updates of medications in Millennium
- Ability to identify problems with the build of medications
- Ability to build and turn on DRC

Prerequisites: None

Course length and price:
- 1 day; Saturday, Oct. 5; 8:30 a.m.-4:30 p.m.; $690 per person

Maximum Capacity: 25 participants

Agenda:

- Multum Overview
- CKI's and their Role in Millennium
- Multum Monthly Updates
- Medication Order Catalog
- IV Order Catalog
- Dose Range Checking (DRC)
- Medication Order Sentences
- Knowledge Driven Medication Ordering (KDMO)
- Bedrock Updates
- Obsolete Synonyms
Weekly Updates
Future Enhancements

* If you are interested in taking the Medication Concepts class on Saturday, we would also recommend you attending the mCDS class on Sunday as both of these classes will be extremely beneficial.
Cerner Millennium: mCDS – Making Clinical Alerts Meaningful

Course description:

Medication clinical decision support (mCDS) was created to improve the user experience and make clinical alerts meaningful. mCDS incorporates filtering, Discern alerts, and other functionality to make clinical alerts meaningful. This workshop will show you how to use the functionality within mCDS to make your alerts meaningful.

Target Audience:

- Pharmacy Staff
- Physicians, Nurses
- IT Staff

Learning Objectives:

- Understand clinical alerts
- Understand meaningful alerts
- Be able to use the functionality within mCDS to create meaningful alerts

Prerequisites: None

Course length and price:

- 1 day; Sunday, Oct. 6; 8:30 a.m. - 4:30 p.m.; $690 per person

Maximum Capacity: 25 participants

Agenda:

- mCDS Introduction
- Venue of Care Filtering
- Preferences
- Using Discern Rules
  - Discern alerts displayed within mCDS
  - Filtering drug/drug interactions using Discern rules
- Inclusive and Exclusive PowerPlan Filtering
- Order Detail Filtering
- Scheduled/PRN Filtering
- TPN Filtering
- Provider Encounter Filtering
- Same Order Conversation Filtering
- Discontinue Days Filtering
- Discontinue in Scratchpad Filtering
- Alert Maintenance Filtering
- Questions/Examples
* If you are interested in taking the mCDS class on Sunday, we would also recommend you attending the Medication Concepts class on Saturday as both of these classes will be extremely beneficial.
Cerner P2Sentinel®: Accelerating your usage of Audit Data

Course Description:

Today's compliance requirements and growing security threats make it paramount for healthcare organizations to collect, monitor and report security events and access data. When it comes to information security and compliance in healthcare, Cerner takes a proactive approach. With various consulting and technical solutions, we help your team address Meaningful Use and HIPAA requirements as well as help safeguard your ePHI against unauthorized use and disclosure.

This course is targeted for Compliance, Privacy and Information Security Analysts to understand the functionality and use of Cerner's P2Sentinel solution. This course will walk you through a baseline understanding of the solution and outline a best practice to guide your organization in developing a thorough compliance program.

By the end of the learning activity, participants will have a better understand of the solution and be able to better leverage the reporting tools within the solution.

Target Audience
- Compliance / Privacy Officer
- Information Security Officer
- Data Security Analyst

Learning Objectives:
- Understand the overall concepts of using P2Sentinel to help safeguard and investigate potential threats to your Organization's electronic personal health information
- Use of dashboards and graphs to make data more recognizable
- Understand how Millennium workflows translate to P2Sentinel Audit Events
- Opportunity to discuss client specific scenarios
- Integrate other data sources outside of Millennium into P2Sentinel to help zero in on potential inappropriate access to ePHI
- Collaborate with other industry experts on “best practice” techniques for data mining and spot checking
- Solve complex use cases in groups, validated by P2Sentinel expert
Prerequisites:
- Email 3 scenarios that your organization would like to solve, or find more efficient workflows for. Send these scenarios to: p2sentinel@cerner.com

Course length and price:
- 1 day; Sunday, Oct. 6; 8:30 a.m. - 4:30 p.m.; $690 per person

Maximum Capacity: 15 participants

Agenda
- Overview Vision of P2Sentinel
  - Review of Solution/Compliance process
    - Understanding Compliance Discussion
      - Investigations
      - Patient/Employee complaints
      - Audits
      - Auditing + Monitoring
  - Compliance Officer (P2Sentinel) Awareness –
    - Millennium Key Concepts for Compliance
    - Applying Millennium Concepts to P2Sentinel
    - Audit Event Management
  - Work in Groups on Client Provided Scenarios and process to solve
    - Review and consider policy change to deter malicious behavior
  - Discuss Proposed Solutions with Entire Group
Cerner Millennium: Registration Rules

Course description:

The course will provide skills in writing, executing, and troubleshooting Registration Management conversation level and interfield rules as well as use of the Registration Management Conversation Builder (pmdboconv.exe) tool and the Conversation Launcher (pmlaunch.exe) application applied to both test case scenarios as well as site-specific rule needs.

Learning Objectives:

• Determine when a conversation or interfield rule may be needed.
• Import, modify, and troubleshoot rules from the Rule Library and Database.
• Design, develop, and troubleshoot custom conversation/interfield rules using the pre-determined Cerner, VB, or CCL functions.

Prerequisites:

• Cerner Millennium: Fundamentals
• Experience supporting Cerner Registration Management

Course length and price:

• 3 days; Friday, Oct. 4 - Sunday, Oct. 6; 8:30 a.m. - 4:30 p.m.; $2,070 per person

Maximum Capacity: 10 participants

Agenda:

Day 1:

• Welcome & Introductions
• Registration Rule Foundations
  o Types of Rules
  o Viewing and Editing Rules in Conversation Builder
  o Differences in Rules Engines and Enhanced Rule Writing Interface Features
  o Rule Writing Tools
• Designing Registration Rules
  o Requirements & Parameters
  o Pseudo Code
  o Documentation
• Coding Registration Rules
  o Rule Structure
  o Decision Making Statements

Day 2:

• Coding Registration Rules (cont.)
Day 3:

- CCL Function
- Writing Cleaner Code
- Registration Rules Troubleshooting
  - Tips & Tricks
  - Common Errors
**uCern: Collaborate, Learn, Share and Innovate**

**Course description:**

This one-day, hands-on workshop provides Cerner clients the strategies and best practices needed to effectively use uCern Connect and Cerner Wiki within their organization to achieve business goals. Participants will identify uses for the suite of applications within their daily workflow. Participants will be given exclusive access to the entire Cerner Workforce Adoption Team and provided with resources they need to become uCern Connect experts, empowering them to take this knowledge back to their organization and continue driving internal adoption and consistent use of uCern Connect and Cerner Wiki.

**Target Audience:**
- All signed Cerner clients

**Learning Objectives:**
- Gain an understanding of the suite of applications (uCern Connect and Cerner Wiki) and use cases for each
- Best practices for navigating and searching for key sources of information
- Effective management of information from uCern Connect
- Create your own uCern Group to help address a business need

**Prerequisites:**
- Have an active uCern account.

**Course length and price:**
- 1 day; Sunday, Oct. 6; 8:30 a.m. - 4:30 p.m.; $690 per person

**Maximum Capacity:** 20 participants

**Agenda:**

- Welcome & Introductions
- History of Social Business and uCern
- uCern Connect Top to Bottom
  - Navigation
  - uCern Connect Search
  - Community Management
    - Create Your Group
- Cerner Wiki Top to Bottom
  - Navigation
  - Cerner Wiki Search
- Q&A
724Access DTV Maintenance, Monitoring, and Solution Settings

Course description:

The Cerner 724Access® Downtime Viewer solution provides 24x7 access to a subset of clinical data currently available in the Cerner Millennium® production database when the Cerner Millennium system, supporting infrastructure or the network is otherwise unavailable. Clinical information is viewed within a standalone workstation and viewer.

The purpose of this learning event is to develop skills focused on the essentials of maintaining and monitoring your Downtime Viewer solution. Additionally, time will be dedicated to discussing the fundamentals of implementing and upgrading the Downtime Viewer solution.

Target Audience

- 724Access Administrators
- Database Administrators
- IT Staff

Learning Objectives:

You will gain basic knowledge of the essential components and options available to implement, upgrade, monitor, and maintain your Downtime Viewer solution. A review of all current monitoring tools will be reviewed. An introduction the 724Access Olympus module will be explored in depth to understand how Olympus monitoring will help your organization. The 724Access toolkit IP team will review current toolkit offerings and provide insight to new and anticipated toolkit functionality. The consulting team will provide an overview of implementation expectations, as well as identify the essential steps and considerations when preparing for an upgrade.

- Demonstrate the use of the monitoring options.
- Identify appropriate maintenance of the solution.
- Recognize toolkit offerings and upcoming release expectations
- Realize the expectations of an implementation or expansion
- Understand the fundamental upgrade considerations

Prerequisites:

- Clients must have purchased 724Access Downtime Viewer

Course length and price:

- 1 day; Sunday, Oct. 6; 8:30 a.m. - 4:30 p.m.; $690 per person
Maximum Capacity: 30 participants – Minimum of 10 attendees

Agenda:

• 724Access Downtime Viewer Implementation, Upgrade, Monitor, Maintain
  o Solution Introduction and Overview
  o Downtime Viewer Current State and Future Release Expectations
  o Solution Monitoring
  o Toolkit Management
  o Implementation Expectations
  o Upgrade Considerations
  o Q&A Session
How to enroll in pre-conference workshops:

- First, enroll in the desired pre-CHC workshop through uLearn (ulearn.cerner.com)
- Next, visit the CHC 2019 event website
  - Please note this is a specialized link different from the link found on-line
    - This link allows you to register without paying for the Conference whether you are a Premier Pass client or non-Premier Pass client
    - This link also has the room block for all pre-CHC attendees connected to it
- Fill in the “Attendee Information” page
- Complete the “Personal Information” page
- Fill out the “Additional Information” page
- Review your “Registration Summary”
- Hit the “Finish” button on the next page
- If you will need hotel arrangements, on your confirmation page, click the “Book Hotel” button.
  - All pre-CHC Workshop attendees have a room block at The Westin Kansas City at Crown Center
    - This is the only hotel we will be providing a shuttle service for the Pre-CHC workshop, so please be sure that hotel is selected when you are booking if you plan on utilizing the shuttle to and from our WHQ Campus. If you choose to stay at a different hotel, you will be responsible for your travel arrangements each day.

For questions about CHC or workshop registration, please contact the CHC team:

- Via email at CernerHealthConference@Cerner.com
- Or via phone at (800) 645-7110, Monday - Friday, 9 a.m. - 4 p.m. (CST).