



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

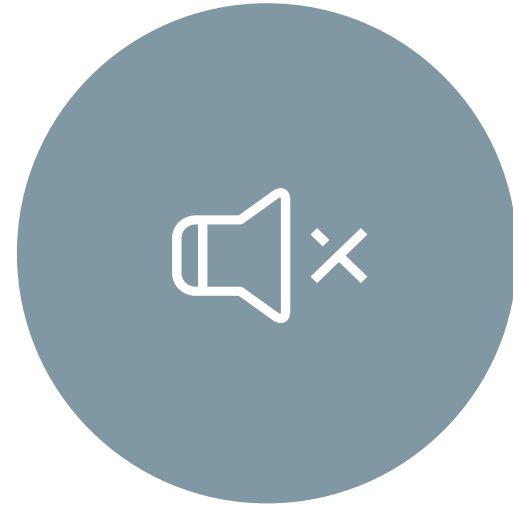
AIRA Discovery Session: AIRA's Interoperability Training

Discovery Session
October 25, 2021
4 PM EST

AIRA Discovery Session



This meeting is being recorded
and will be posted in the
AIRA repository

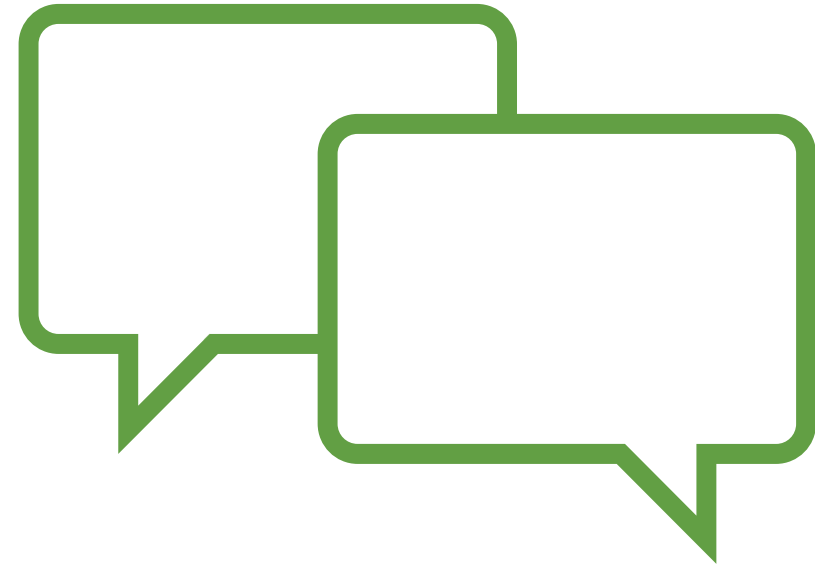


All phone lines
are muted



Technical Support

If you experience any technical issues during the meeting, please contact **Sarah Stein** via direct message in the Chat.



Surprise!
A Few Questions
for You



Today's Speakers

- Nathan Bunker, AIRA
- Assiatou Diallo, AIRA
- Panel from the IIS Community
 - Cylvia Tucker, OR
 - Elizabeth Owens, KY
 - Romni Palmer, PCC

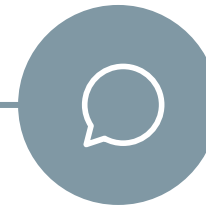


Questions

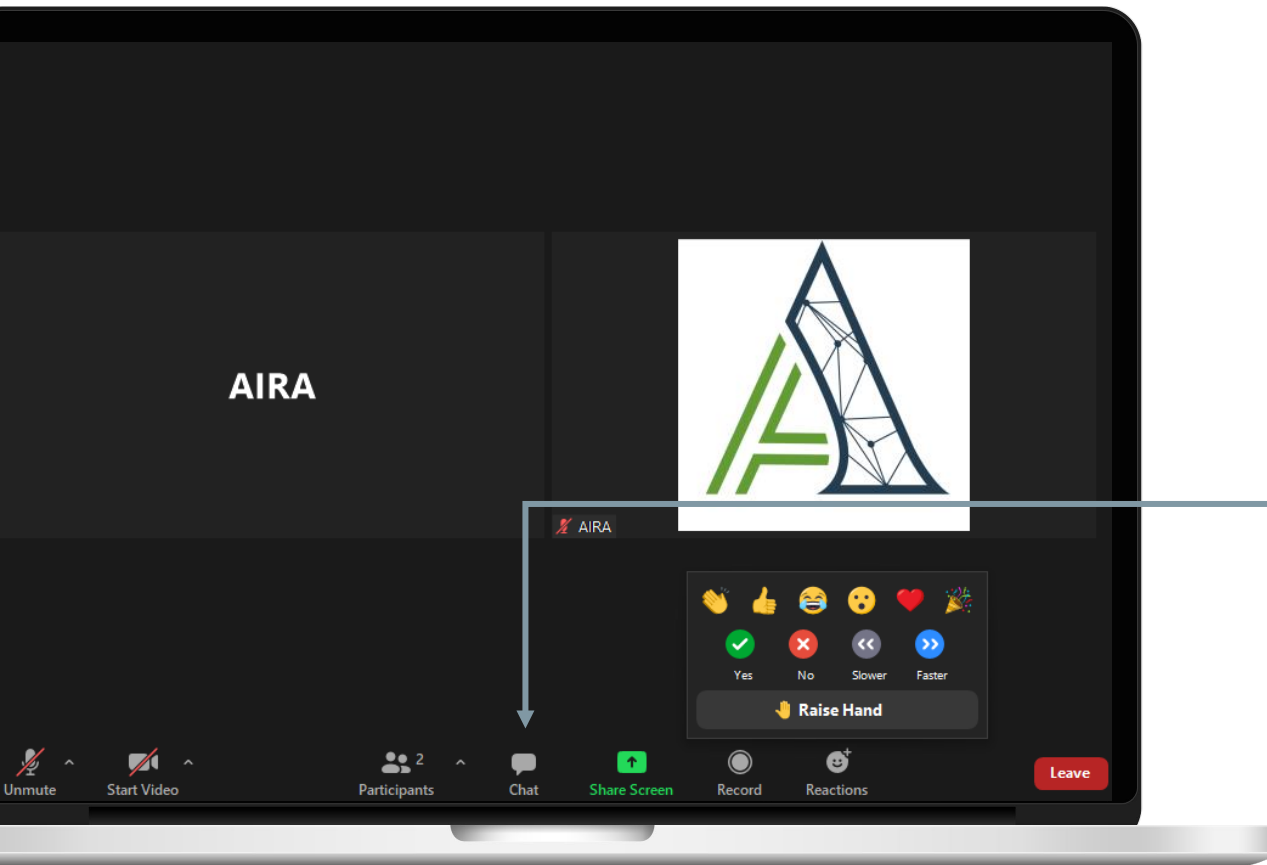
How do I ask a question?

There will be time allotted for Q&A following the presentations.

If you think of a question during the presentations:



Select the chat icon and type your question into the chat box.



Interoperability Training

Why public health needs to understand technology better

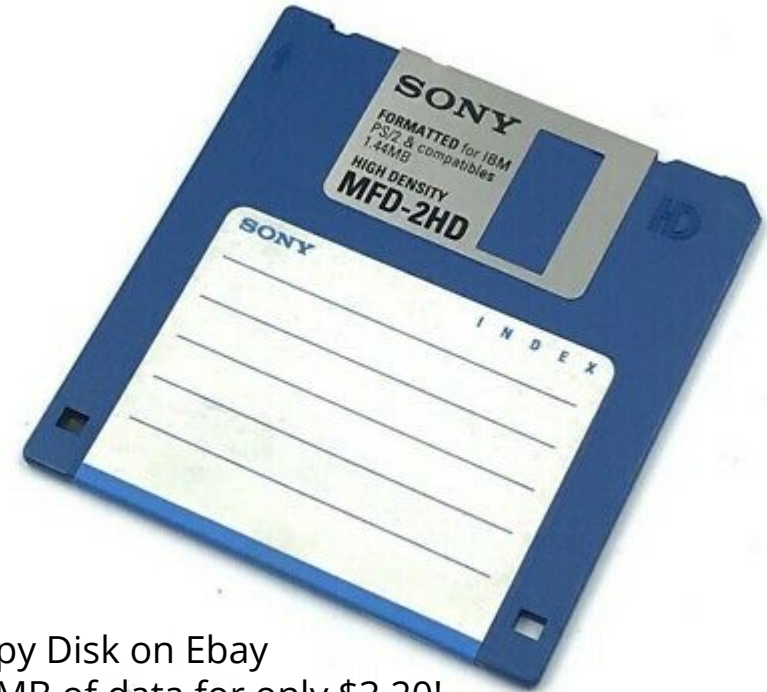
Interoperability Training

- Centered around the needs of HL7 messaging
- Designed for Public Health experts
- You will learn:
 - Technical words
 - Fundamental concepts



Public Health 1990s

- IIS were at state, county and city levels
- Moving data with floppy disks
- Could the Internet help us?



Floppy Disk on Ebay
1.44MB of data for only \$3.20!



Public Health 1990s

- IIS were at state, county and city levels
- Moving data with floppy disks
- Could the Internet help us?



By User:Ericd, Fair use,
<https://en.wikipedia.org/w/index.php?curid=86883>



Public Health 2000s

- IIS consolidated into state systems
 - Created web presence
 - Acted as mini-EHR for childhood

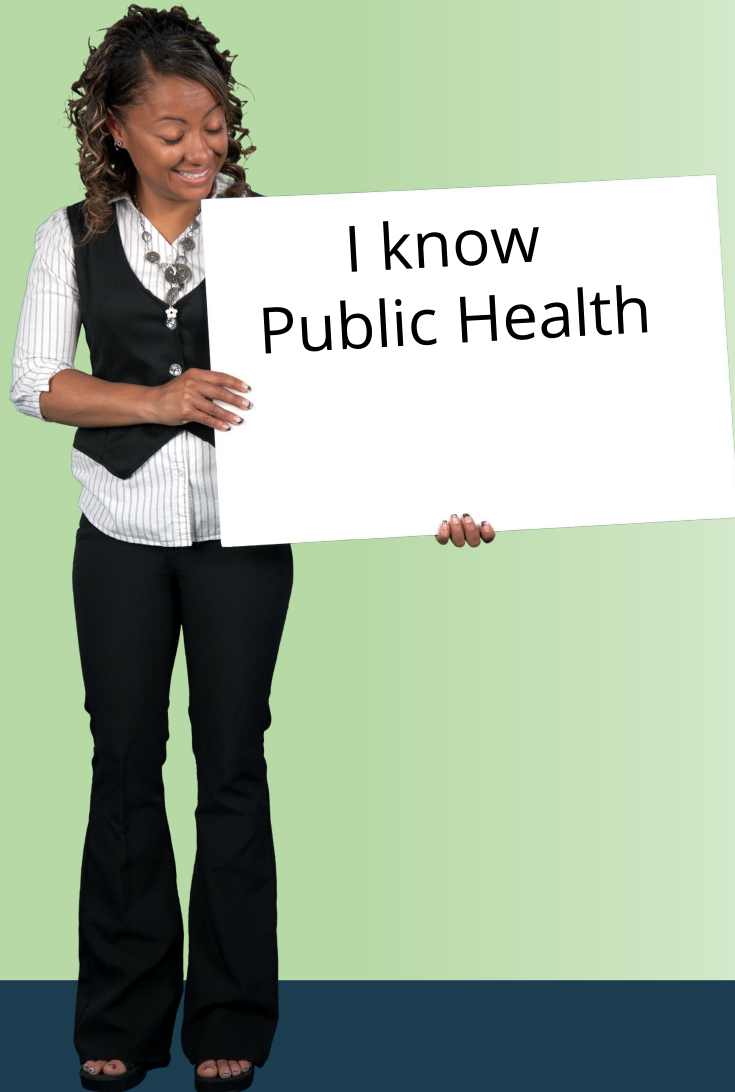


Public Health 2000s

- IIS consolidated into state systems
 - Created web presence
 - Acted as mini-EHR for childhood healthcare
- Health departments partnered with technology teams
 - Public health hired the experts



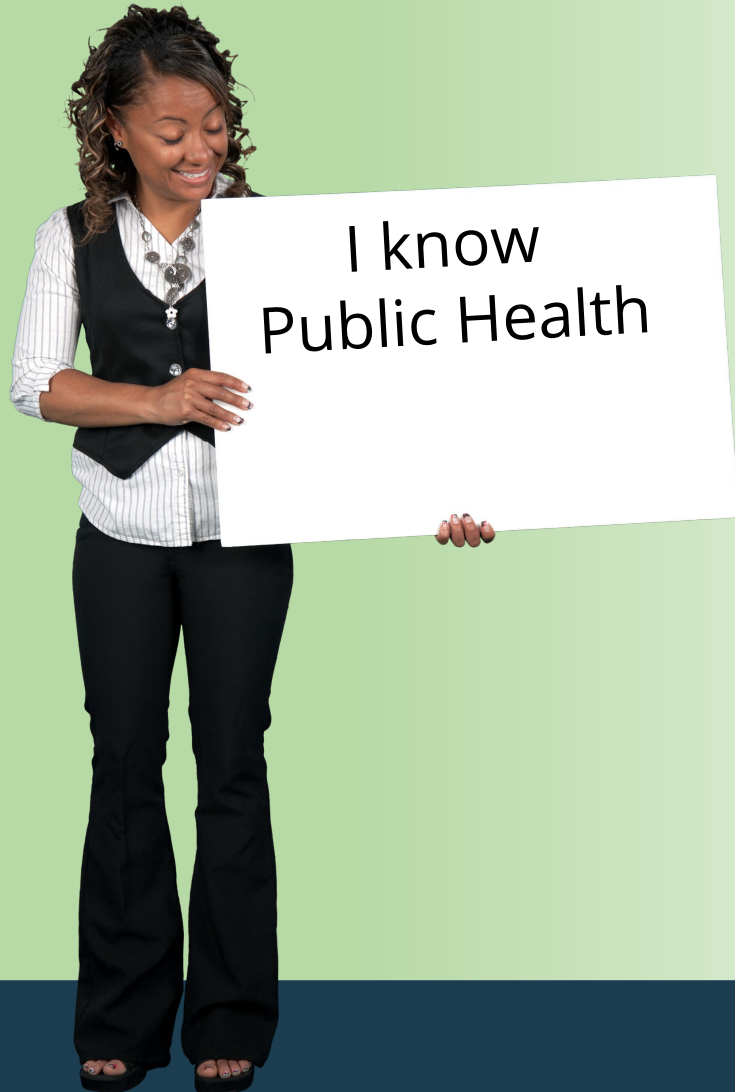
Public Health



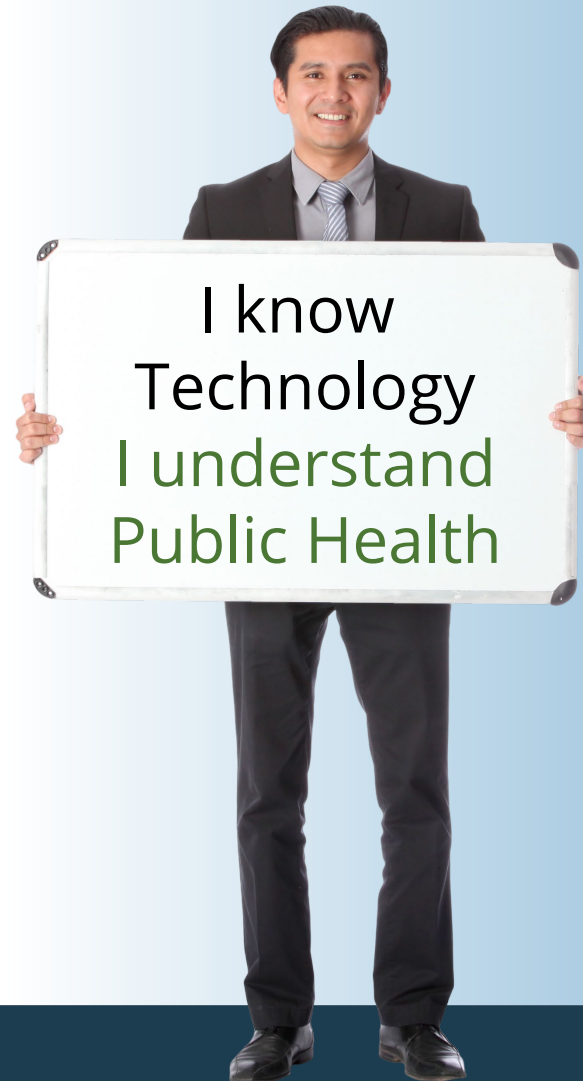
Technology Team



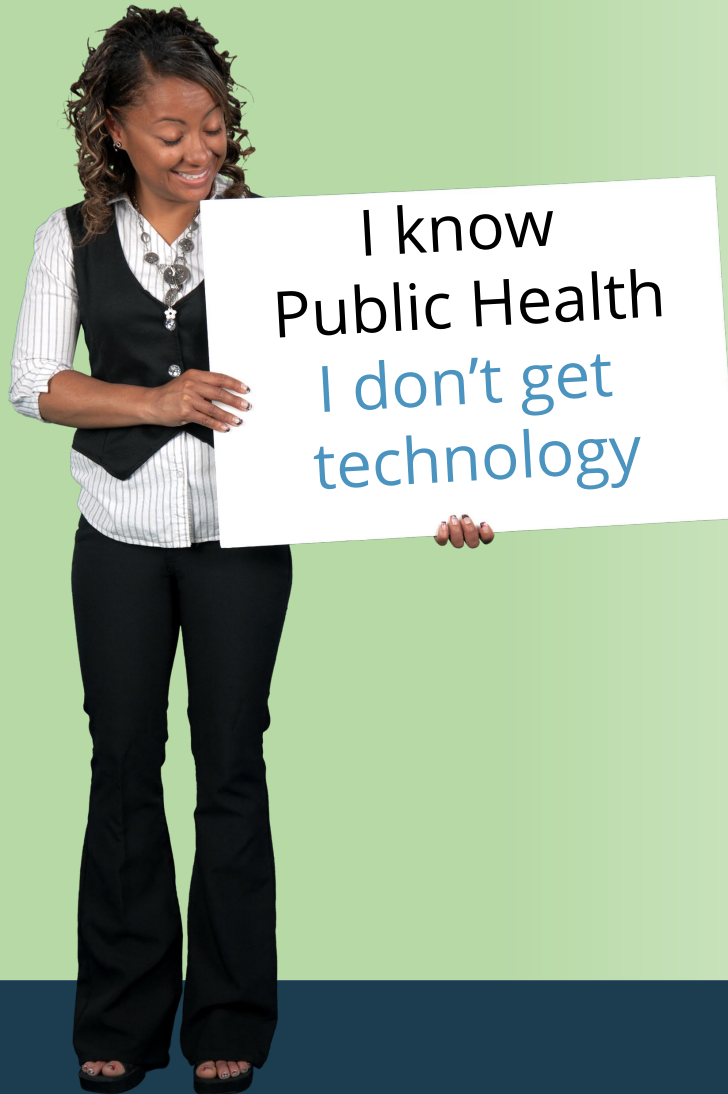
Public Health



Technology Team



Public Health



Technology Team



Public Health



Technology Team



Interoperability Training

- Centered around the needs of HL7 messaging.
- Designed for Public Health experts
- You will learn:
 - Technical words
 - Fundamental concepts



Report Back

How the original course went and advice on how to succeed

Pilot AIRA Interoperability Course

- Designed in response to technical assistance requests
- Offered in Spring 2021



Pilot AIRA Interoperability Course

- 13-week course
 - Twice weekly Zoom sessions
- Homework, additional reading, and tools
- Menti and in-class exercises



Quick Sheet

Segments	
MSH	Message Header
PID	Patient Identifier
PD1	Patient Demographic
NK1	Next of Kin
ORC	Order Request
RXA	Pharmacy/Treatment Administration
RXR	Pharmacy/Treatment Route
OBX	Observation Result

MSH Fields (selected)	
MSH-4	Sending Facility
MSH-7	Date/Time of Message
MSH-10	Message Control Id
MSH-22	Receiving Responsible Organization

PID Fields (selected)

NK1 Fields (selected)	
NK1-2	Name XPN
NK1-3	Relationship
NK1-4	Address XAD
NK1-5	Phone Number XTN

ORC Fields (selected)	
ORC-2	Placer Order Number
ORC-3	Filler Order Number
ORC-10	Entered By XCN
ORC-12	Ordering Provider XCN
ORC-17	Entering Organization

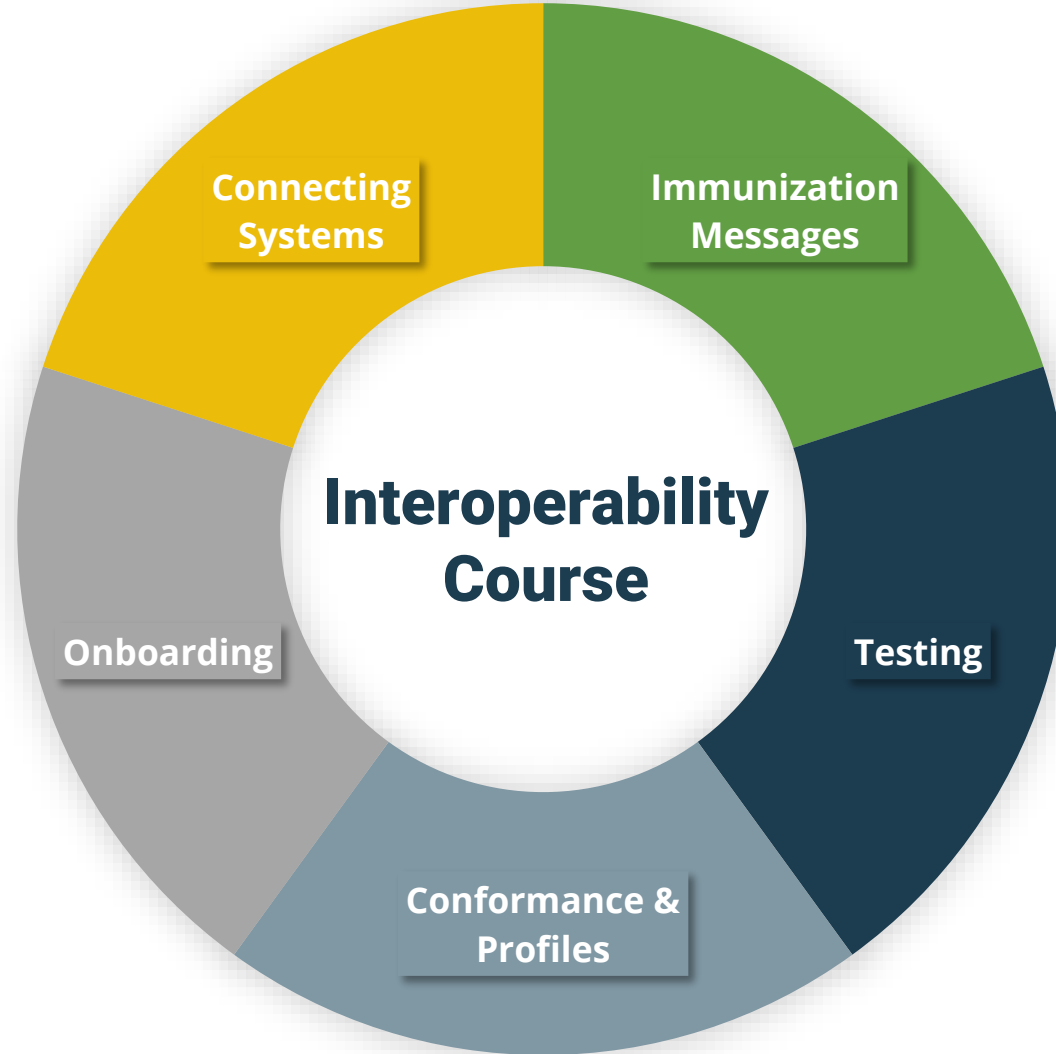
RXA Fields (selected)	
RXA-3	Date/Time Start of Administration
RXA-5	Administered Code (CVX, NDC, CPT) CVX 998 indicates non-

OBX-3 LOINC (selected)	
64994-7	Vaccine funding program eligibility category
30956-7	Vaccine funding source
69764-9	Document type (for VIS)
29768-9	Date Vaccine Information Statement Published
29769-7	Date Vaccine Information Statement Presented

CX Composite ID	
.1	ID Number
.4	Assigning Authority
.5	Identifier Type Code

XAD Address	
.1	Street Address
.3	City
.4	State





Pilot Course Participation

- Variety of organizations
 - 17 jurisdictions
 - 5 vendors
 - 2 partner organizations
 - 1 university student
- Variety of roles and experiences
 - 54 participants enrolled
 - 36 participants attended over 80% of the course and received a completion certificate



Panel Discussion

Hear experiences from first edition participants

Panel Discussion

- Cylvia Tucker, OR
- Elizabeth Owens, KY
- Romni Palmer, PCC



Course Orientation

For those who will begin the course here are the keys to success

Interoperability Course

★ Connecting Systems

Immunization Messages

Conformance & Profiles

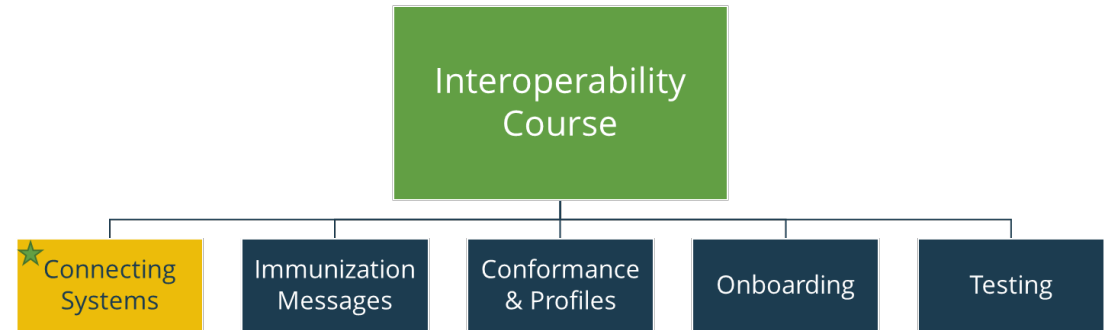
Onboarding

Testing



Interoperability Training

- Connecting Systems
 - Binary, hex, ASCII text
 - Networks & Connections
 - Internet & WWW
 - Transport & CDC WSDL
 - Hashing & Encryption
 - Keys & Certificates
 - Troubleshooting
 - Security



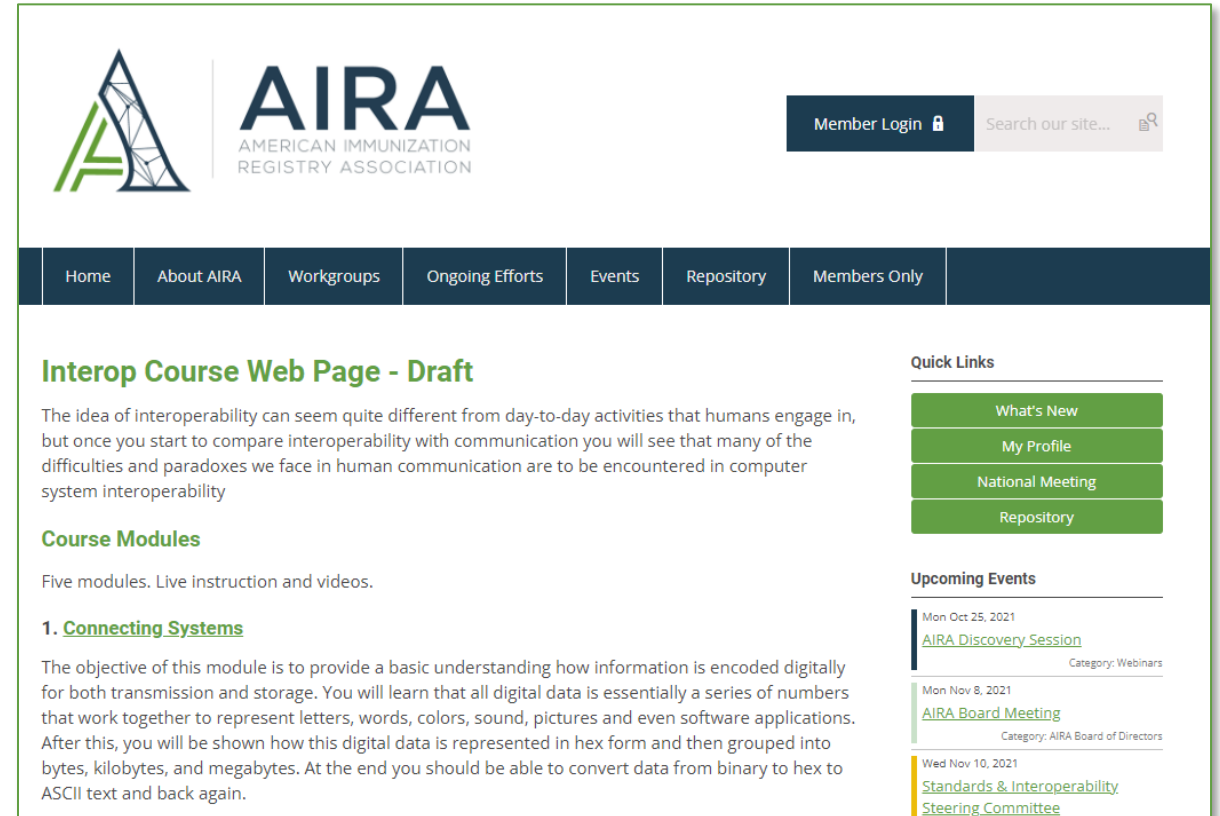
Course Requirements

- Individual Work
 - Watch content videos
 - Complete learning exercises
 - Submit weekly questionnaire
 - **Due Tuesday before class**
- Class Attendance
 - Attend all 6 classes
 - Wednesday, 4 pm ET
 - Nov 3, 10, 17 & Dec 1, 8, 15
 - Please tell us if you will miss





Individual Work

- Content videos
 - 6-8 videos
 - 10-25 minutes each
 - 2 hours total content
- Exercises
 - Required and optional
- Other content
 - Recommended videos
 - Quick sheets



The screenshot shows the AIRA (American Immunization Registry Association) website. The header includes the AIRA logo, a "Member Login" button, and a search bar. The navigation menu contains links for Home, About AIRA, Workgroups, Ongoing Efforts, Events, Repository, and Members Only. The main content area is titled "Interop Course Web Page - Draft" and includes a paragraph about interoperability, a "Course Modules" section with five modules, and a "Quick Links" sidebar with buttons for "What's New", "My Profile", "National Meeting", and "Repository". The "Upcoming Events" section lists three events: "AIRA Discovery Session" (Mon Oct 25, 2021), "AIRA Board Meeting" (Mon Nov 8, 2021), and "Standards & Interoperability Steering Committee" (Wed Nov 10, 2021).

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Member Login  Search our site... 

Home About AIRA Workgroups Ongoing Efforts Events Repository Members Only

Interop Course Web Page - Draft

The idea of interoperability can seem quite different from day-to-day activities that humans engage in, but once you start to compare interoperability with communication you will see that many of the difficulties and paradoxes we face in human communication are to be encountered in computer system interoperability

Course Modules

Five modules. Live instruction and videos.

1. Connecting Systems

The objective of this module is to provide a basic understanding how information is encoded digitally for both transmission and storage. You will learn that all digital data is essentially a series of numbers that work together to represent letters, words, colors, sound, pictures and even software applications. After this, you will be shown how this digital data is represented in hex form and then grouped into bytes, kilobytes, and megabytes. At the end you should be able to convert data from binary to hex to ASCII text and back again.

Quick Links

- What's New
- My Profile
- National Meeting
- Repository

Upcoming Events

- Mon Oct 25, 2021
[AIRA Discovery Session](#)
Category: Webinars
- Mon Nov 8, 2021
[AIRA Board Meeting](#)
Category: AIRA Board of Directors
- Wed Nov 10, 2021
[Standards & Interoperability Steering Committee](#)



Individual Work

- Weekly assignment
 - Each exercise includes questions
 - Must complete online survey and answer questions
 - Due by midnight Tuesday before class



The screenshot shows the AIRA logo and name at the top. Below the logo is a green header bar labeled "Participant Information". The form contains three input fields: "IIS Jurisdiction:", "Participant Name:", and "Participant Email:". At the bottom, there are two buttons: "<< Previous Page" and "Next Page >>".

Resize font: 

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Page 2 of 4

Participant Information

IIS Jurisdiction:

Participant Name:

Participant Email:

<< Previous Page Next Page >>



Individual Work

- Course perception:
 - How much time did you spend?
 - How hard was the content?
 - Do you understand it?
 - Any additional Comments

Course Perception:

How many hours did you spend by yourself this week on this course?

An accurate estimate is needed to calibrate content for next year's course, not considered when calculating course participation

* must provide value

The content this week was: * must provide value

Too Easy

Easy

Okay

Hard

Too Hard

reset

How competent do you feel with this information: * must provide value

I know this stuff

I think I get it

Not sure if I understand correctly

I'm lost

reset

Additional Comments:

Expand



Individual Work

- Content questions:
 - Will change every week.
 - Must complete exercises to get the answers to the questions.
 - The answers are used to determine if you completed the exercises and how well you know the content

Content Specific Questions:

What is the RGB number for **green**?
* must provide value

reset

What is your favorite color in RGB?
* must provide value

What binary number is **one more** than binary 1101?
* must provide value

What binary number is **one less** than binary 1000?
* must provide value

What is your name in binary?
* must provide value



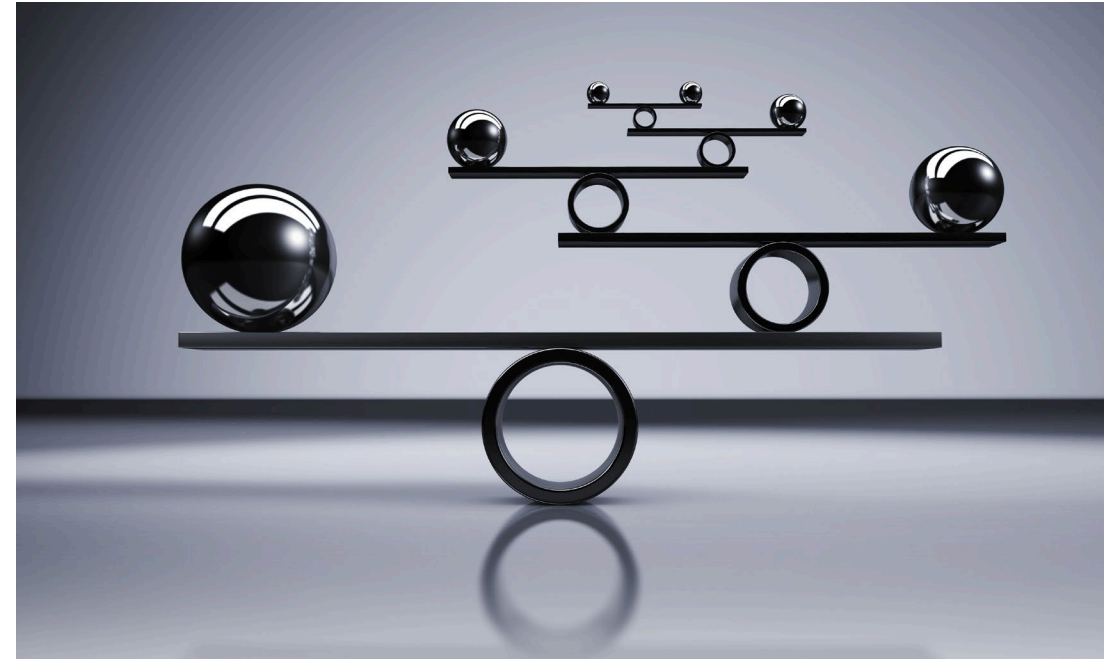
Class Attendance

- Review of weeks material
 - Opportunity to ask questions
- Group quiz challenge
 - Anonymous Mentimeter quiz
- Group exercises



What will you gain?

- Better understanding how technology works
- You will have the words you need to talk to technical teams
- Know what needs your focus and what can be ignored



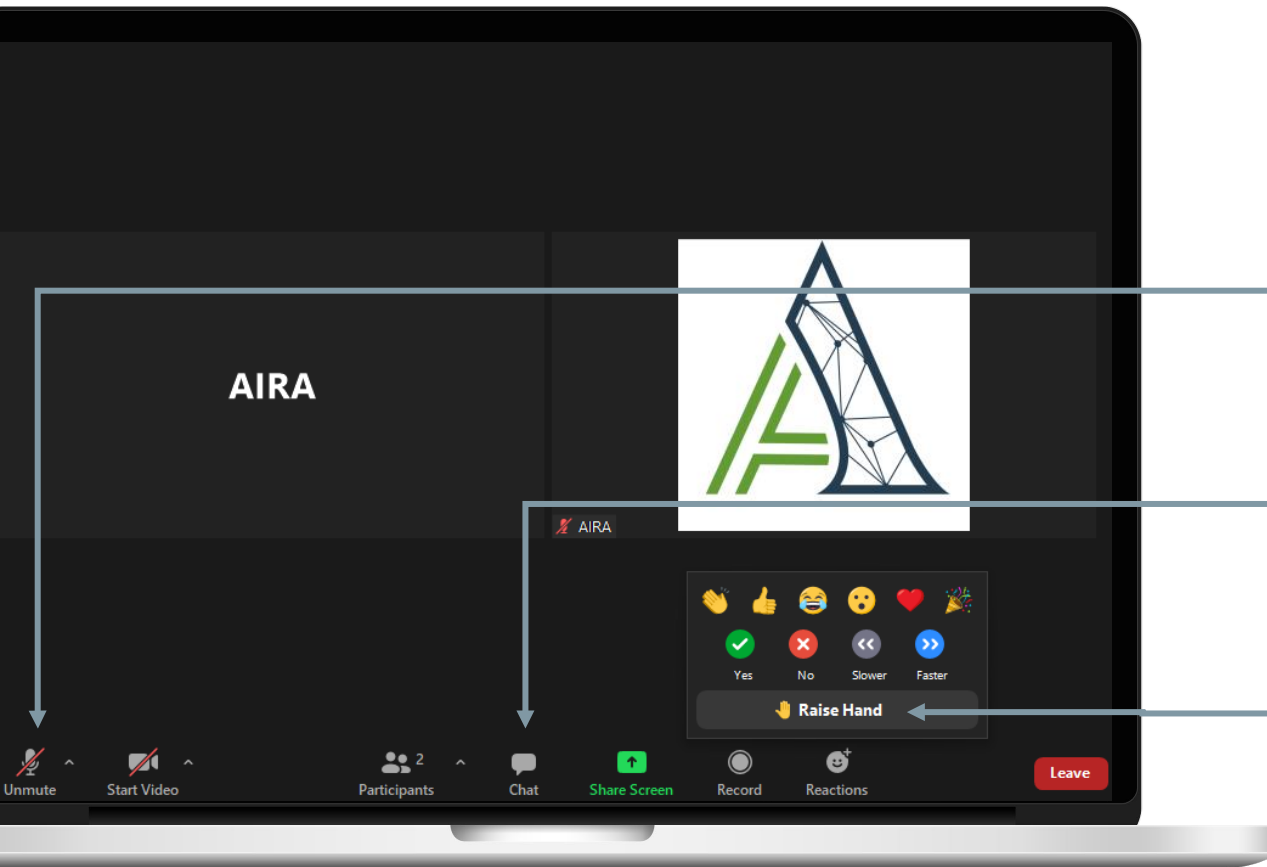
Interested?

Registration Open Until Friday 10/28

- Participants plan to attend at least five of the six live sessions
- Dedicate at least two hours a week to review the recorded course videos
- Complete the homework prior to each live class.
- <https://www.surveymonkey.com/r/FallInterop>



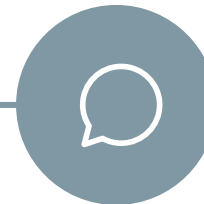
Question & Answer



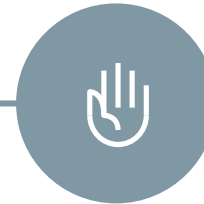
How do I ask a question?



Select the unmute icon and ask your question verbally.




Select the chat icon and type your question into the chat box.



Select the reactions icon, select "Raise Hand," and you will be called on.





Thank you to our presenters, and thanks to all of you for joining us!

Please complete a brief evaluation survey.

The next Discovery Session
will be on November 15, 2021