



THE SOFTWARE DEVELOPMENT LIFECYCLE

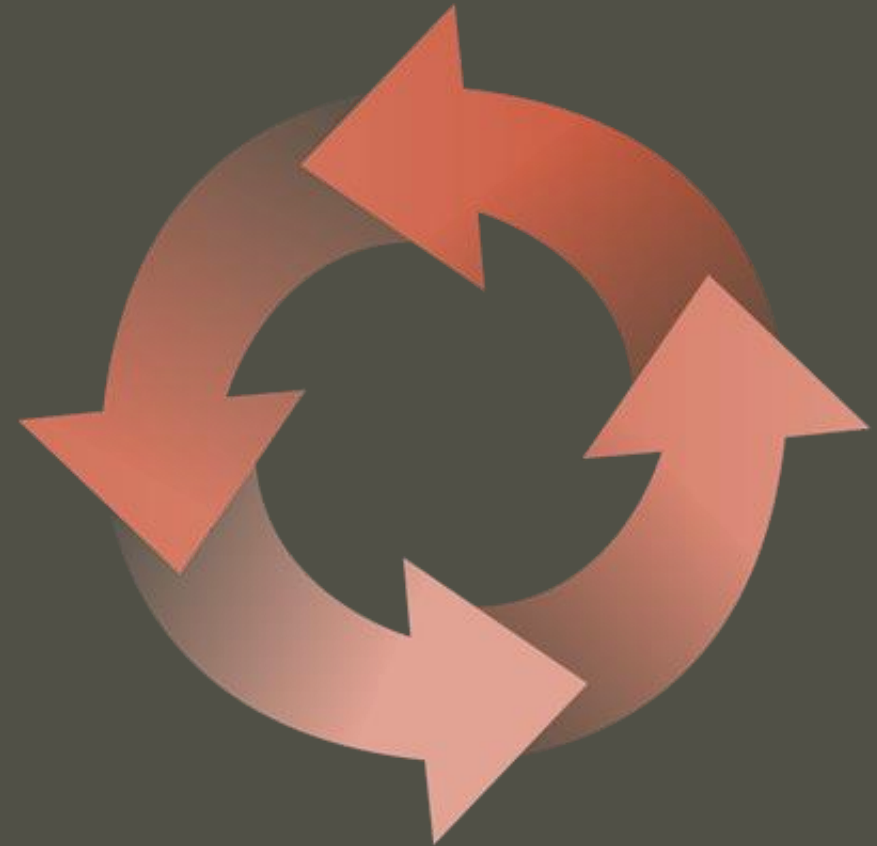
AIRA Discovery Session
September 25, 2017, 4pm Eastern

OVERVIEW

Presentation

- The Software Development Lifecycle

Questions, Comments and Discussion



TODAY'S SPEAKERS:

Therese Hoyle, IIS Consultant with Michigan Department of Health and the Public Health Informatics Institute (PHII)

Teresa Dussault, Training Operations Manager for the Informatics Academy at PHII

Erin Roche, Independent Public Health Consultant with PHII

Jenne McKibben, IIS Director with the State of Oregon's ALERT IIS



PLEASE SAVE QUESTIONS/COMMENTS UNTIL THE END...

Designing and Managing Public Health Information Systems: 8 Steps to Success



Designing and Managing Public Health Information Systems:
8 Steps to Success

COURSE OVERVIEW



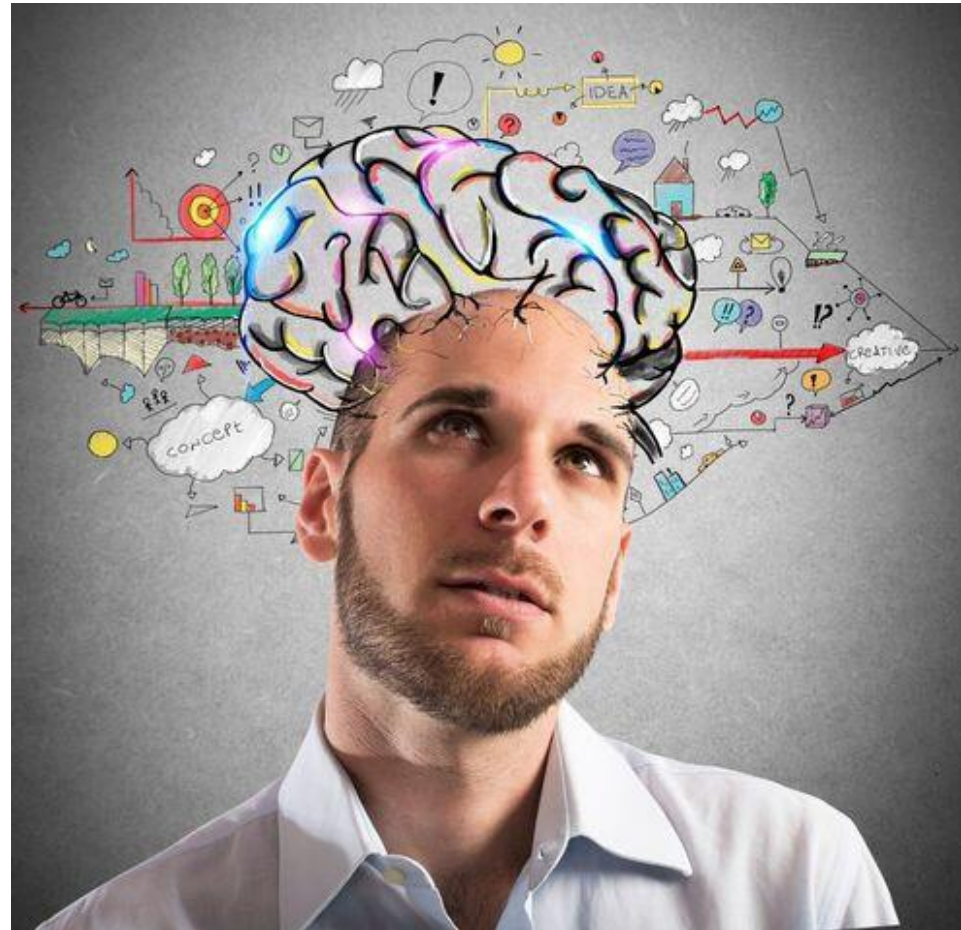
Background

- What is it?
 - 8 week instructor-led course
 - Focused on the role of program staff
 - In developing & managing PH information systems
- Offered since 2013
- Will be its 9th offering in Winter of 2018
- Over 350 people trained to date
- Individual and team registrations



Course Objectives

- Learn to apply the “8 steps” of the IT lifecycle to your project and work
- Ultimate goal: Improved information for public health practice



Course Components

- Charter
- Project example
- Online learning modules
- Weekly webinars
- Selected readings and other assignments
- Discussion forum



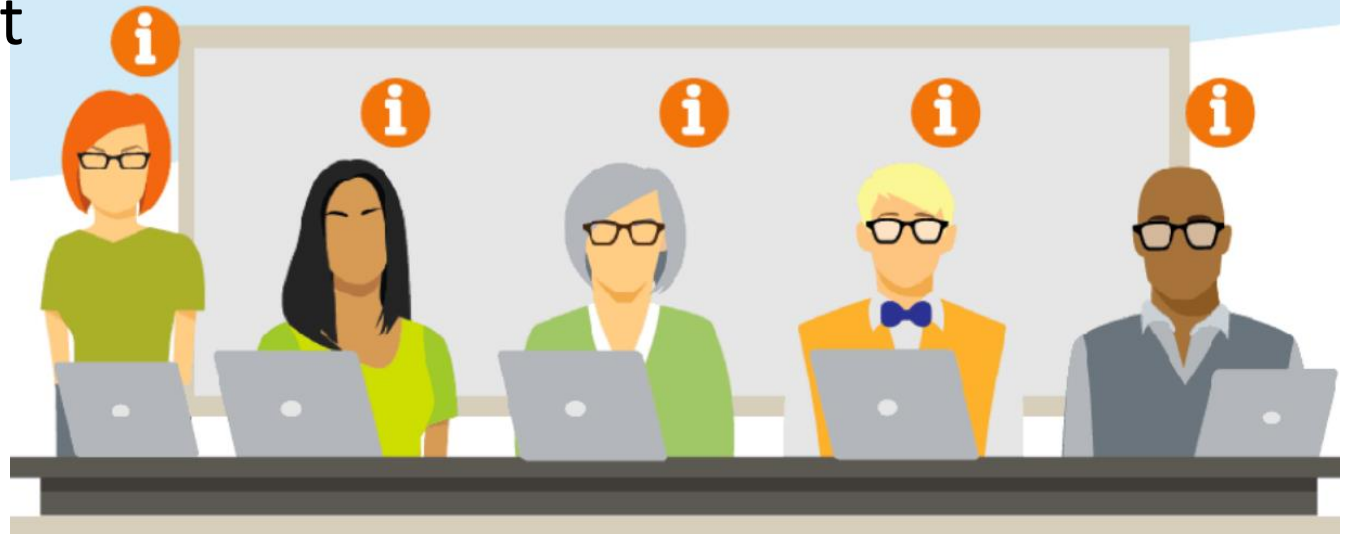
Charter & Project

- Individuals and teams sign a charter
 - Requires approval of project sponsor
 - Includes specifics about dedicated time for course
- Project example
 - Can be current, past, or future
 - Used to give relevant example for application of concepts



Online learning modules

- Completely revised and updated in 2017
- 10 modules total: Introduction + 8 Phases + Application
- Uses realistic PH scenarios to deliver core course content



Weekly webinars

- Eight one-hour live webinars (1/week x 8 weeks)
- Review key concepts
- Address questions and highlight examples and experience of course participants
- Instructors share advice and examples from their professional experience
- Encourage attendance as a team



Discussion Forum

- Response to questions included as a weekly assignment
- Can be answered as individual or as team



Success factors for course

- Engagement with the content
- Participation in a learning community
- Support of sponsor in organization
- Dedicated time for course work
- Dedicated time for discussion and application



Course fees

- \$950 per individual
- Discounts for team registrations (up to 50%)
- Fees include
 - Participation in 8 week course
 - Access to content after the course with no expiration
 - Enrollment in alumni discussion community after course ends
- Next offering is Jan/Feb 2018

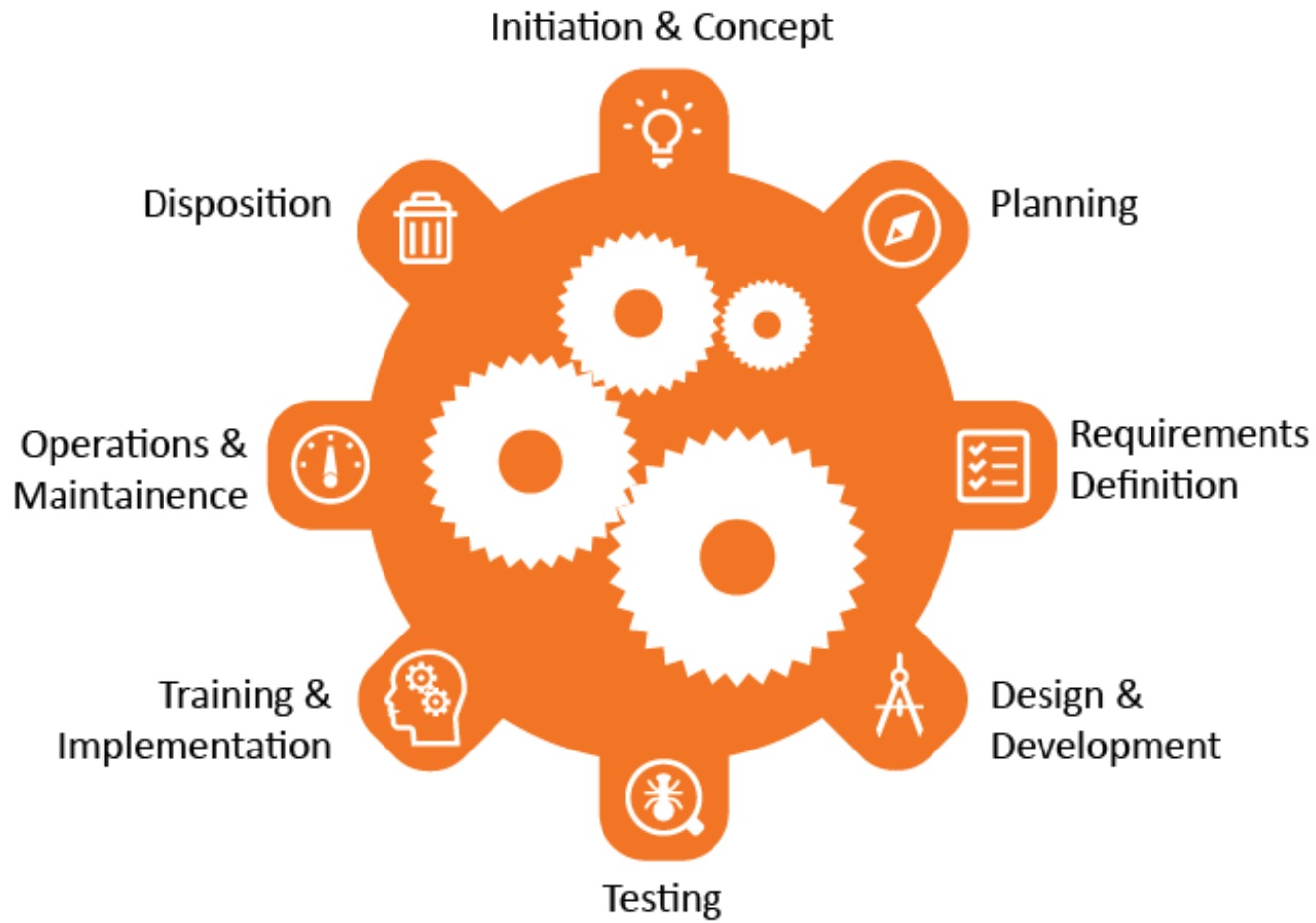


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IT LIFECYCLE OVERVIEW



IT Lifecycle



IT Lifecycle: Guiding Principles

- Follow the 8 steps in order
- Do not omit a step - this typically results in expensive mistakes and even project failure
- Each step has specific questions that you will need to answer



IT Lifecycle: Questions for Each Step

1. What is the purpose of each step?
2. What are the key activities?
3. Who needs to be involved and their role?
4. What are the checkpoints along the way?
5. What are the outputs of the step?
6. What are the exit criteria to move on to the next step in the cycle?

The IT Lifecycle: Content

Each step will have:

Decisions

Approaches to
overcoming
barriers and
addressing
challenges

Key risks if
challenges are
not well
addressed
before moving
to the next step

Value of Learning the IT Lifecycle

- Establishes realistic timeframe for projects
- Establishes the need to formally determine system requirements
- Provides the opportunity to assess technology in a systematic way



Value of Learning the IT Lifecycle

- Identifies key activities
- Serves as a roadmap
- Improves communication among project members
- Helps to avoid costly mistakes



Course Participant Projects

- Immunization Information System
- Communicable Disease Surveillance Systems
- Electronic Birth and Death Record Systems
- Electronic Lab Reporting Systems
- Syndromic Surveillance System
- Anesthesia Record Keeping Program
- Family Home Visiting Module
- Residential Recycling Data Management System



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DISCUSSION FORUM



About the Forum

- Discussion board
 - Weekly questions
 - Slide sets and webinar recordings
 - Additional resources
- Complements the online learning modules and helps inform and enrich webinar discussions
- Facilitates participation in a learning community



Promoting a learning community

- Introductions at the beginning of the course
 - Where people work
 - Information systems they work on and/or use
 - Contributions to and requests of the learning community
- Alumni discussion community



How students use the Forum

- Respond to 2-3 questions each week about a particular phase/aspect of the IT Lifecycle
- Sharing of experiences – successes and challenges
- Respond as an individual or as a team



How the facilitators use the Forum

- Review responses each week
- Identify opportunities to review content, answer questions, and provide additional resources
- Highlight students' experiences to enrich the webinar discussion
 - Share successes and best practices
 - Strategies to address challenges



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PARTICIPANT PERSPECTIVES



Course Participants Perspectives

- Why you took the course?
- What you learned from the course?
- How do you plan to.... or how do you use.... the information learned in the course at work?



A photograph of a crowd of people, mostly seen from the back, with their hands raised in the air. They appear to be in a meeting or a presentation, possibly voting or showing approval. The image is slightly blurred, focusing on the hands in the foreground. A solid blue horizontal band is overlaid across the middle of the image, containing the word 'Questions?'.

Questions?



Can't wait until 2018?

- We offer the online modules we use in the course as a standalone offering called: IT Lifecycle Fundamentals for Public Health
- Good option for people who:
 - Want a completely self-paced experience OR
 - Are unable to commit to an 8 week experience OR
 - Need exposure to the content but don't have much practical experience in public health
- Cost is \$399 for access to all 10 modules



Want more information?

- Visit phii.org and sign-up for the newsletter
- For all Informatics Academy offerings, visit informaticsacademy.org, then Course Catalog
- We also offer several free courses, including 3 specifically for IIS
- Contact me at tdussault@phii.org or informatics.academy@phii.org with suggestions for training you need.





QUESTIONS, COMMENTS, DISCUSSION?



THANKS SO MUCH!