

Data Science Team Training (DSTT) Orientation

Bernadette Aylward, MPH

Kacy Chrestman, CHES

CSTE Program Analyst

1/19/22, 3:00-4:00 PM ET



Council of State and Territorial Epidemiologists

Objectives



- Describe the DSTT program requirements and expectations
- Describe the DSTT program components
- Demonstrate the Basecamp & Coursera platform features

Agenda



1. Introductions
2. Program Goals & Expectations
3. Program components
4. Evaluation
5. How to succeed in DSTT
6. Quick Tour of Basecamp & Coursera
7. Action items
8. Q & A

Introductions



CSTE Staff



Amanda Masters, MPH
Director of Workforce Development



Jessica Arrazola, DrPH, MPH, MCHES
Senior Program Analyst



Bernadette Aylward,
MPH

Workforce Program
Analyst



Kacy Chrestman, CHES
Workforce Program
Analyst



Laura Franzke, PhD, MPH
Lead, Health Scientist

Evaluators

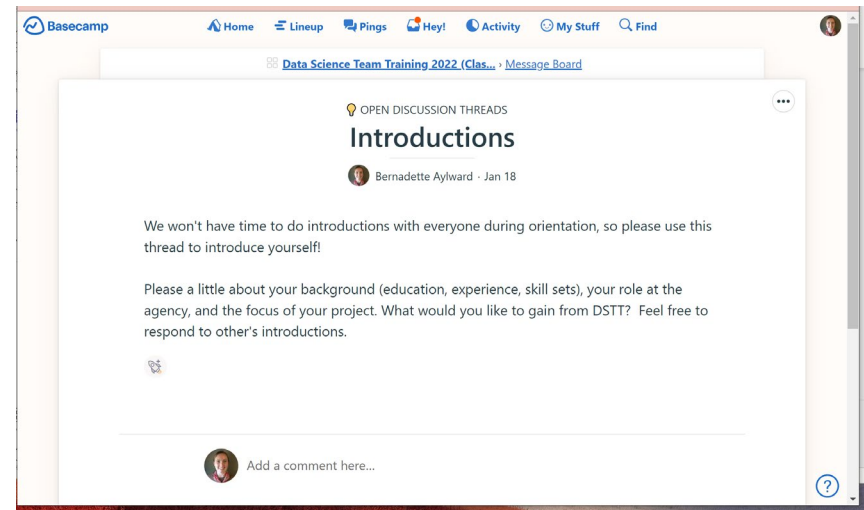


- David Napp
- Jane Conklin

Team Introductions



- On Basecamp...
 - Message board, please reply to the open discussion thread
 - Introduce yourself by the end of next week (1/28)



Participating Teams



Team Site Name

Arizona Department of Health Services

Arkansas Department of Health

California Department of Public Health

Cook County Health and Hospitals System

County of Sonoma

Delaware Division of Public Health

Iowa Department of Public Health

Kansas Department of Health and
Environment

Michigan Department of Health and Human
Services

Minneapolis Health Department

Minnesota Department of Health

Multnomah County Health Department

Nebraska DHHS

New York State Department of Health

North Dakota Department of Health

Oklahoma State Department of Health

Oregon Health Authority

Pennsylvania Department of Health

Seattle & King County

South Carolina Department of Health and
Environmental Control

Tennessee Department of Health

Texas Department of State Health Services

United States Virgin Islands Department of Health

Utah Department of Health

Washington State Department of Health

Wisconsin Occupational Health Program

Program Requirements & Expectations



Program Purpose & Goals



Purpose: To provide team-based on the job data science training to improve data science capacity at STLT health departments.

Goals:

- 1.) Improve data science capacity in STLT agencies
- 2.) Create a peer network within and across STLT agencies
- 3.) Increase public health data science knowledge, skills, and abilities among STLT staff

Expectations



- What does CSTE expect from you?
 - Engage with content on Coursera platform
 - Collaborate as a team to work on your project
 - Actively participate on Basecamp to discuss and share resources
 - Participate in monthly discussions with other teams
 - Engage with project coach
 - Respond promptly to CSTE communications
 - Participate in evaluation activities

Expectations



- What can you expect from CSTE?
 - Communication
 - Email, phone
 - Facilitate connection to program resources
 - Share additional resources

Key Components



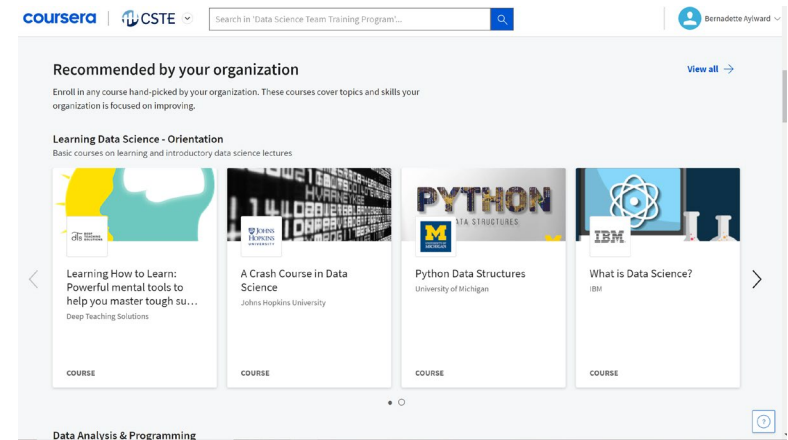
- **Online course content (Coursera)**
- Peer learning community (Basecamp)
- Team work on projects
- Work with project coaches
- Monthly workshops
- Training Stipend (\$10,000)
- Final presentations

- Coursera
 - Bottom line up front: engagement driven by **your** learning goals
 - Every team member has access to all courses for 12 months
 - Cost of this membership is covered by CSTE funding
 - Home page has a curated collection
 - Recommendations:
 - Take an introductory course before the end of February (e.g., 'A Crash Course in Data Science')
 - Talk about your baseline assessment & learning goals with your team
 - Evaluation

Course listings



- Data Science Orientation
 - e.g., "A Crash Course in Data Science"
- Data Analysis & Programming
 - e.g., "Python for Everybody"
- Data Visualization Literacy
 - e.g., "Fundamentals of Visualization with Tableau"



Full course listings will be available on DSTT landing page & will be posted on Basecamp under Docs & Files

Key Components

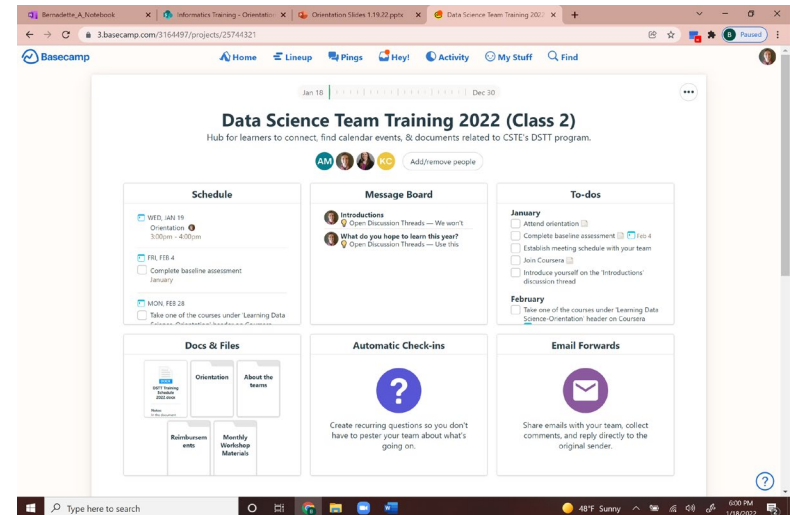


- Online course content (Coursera)
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Basecamp



- Online learning community
- Introduce yourself on the message board!
- Update your email notification settings



Key Components



- Online course content (Coursera)
- Peer learning community (Basecamp)
- **Team work on projects**
- **Work with project coaches**
- Monthly workshops
- Training Stipend (\$10,000)
- Final presentations

Team work on projects



- Projects you submitted in your application
 - Self-directed
 - Subject to change
- At the start consider...
 - Developing a project plan
 - Taking a course on project management (specifically relating to data science projects)
 - Asking your project coach for assistance with project scoping

Work with project coaches CSTE

- Project coaches provide high-level project guidance
 - Kristin Bergman
 - Josh Levy
 - Patric Prado
 - Barbara Tisi
 - TBD
 - Due to accepting more teams than initially planned, CSTE anticipates matching teams with their coaches no later than 2/28/22
- One project coach assigned to each team
 - Establish meeting schedule, communication expectations
- Coaches will collaborate to plan monthly workshops

Key Components



- Online course content (Coursera)
- Peer learning community (Basecamp)
- Team work on projects
- Work with project coaches
- **Monthly workshops**
- Training Stipend (\$10,000)

Monthly Workshops



- Project coaches will plan these around team interests & needs
 - Respond promptly to polls about timing, topics
 - May ask for suggestions
 - Teams may be asked to present
- Main opportunity to connect across teams
- Reading or other preparatory work will be posted on Basecamp
- Will include live sessions and follow up conversations on the Basecamp message board

Key Components



- Online course content (Coursera)
- Peer learning community (Basecamp)
- Team work on projects
- Work with project coaches
- Monthly workshops
- **Training Stipend (\$10,000/team)**

Training Stipend



- \$10,000/team to be used on:
 - Conference attendance
 - Books
 - Additional online trainings (outside of Coursera)
- Funds distributed on a reimbursement model*
- The team training stipend can be used for purchase of software, online courses or course subscriptions, in-person classes or trainings, books, courses at local universities, or attending relevant conferences (travel and registration). Purchases must be directly related to data science, population health, and/or the team project topics.
- The funding cannot be used for CSTE membership, hardware, equipment, agency personnel expenses or salary.
- **this is a change from Class I*

Reimbursements



- Forms for reimbursement will be available on Basecamp
- Process:
 - Identify opportunity
 - Obtain CSTE approval
 - Email before using the funds
 - Register
 - Attend
 - Submit for reimbursement
 - Save receipts and/or proof of attendance
- Tracking team stipend usage
 - Talk about it as a team ($10,000/N = \$X$ per person)?
 - Keep track of individual usage as a team
 - CSTE to track this to for the team as a unit

Key Components



- Online course content (Coursera)
- Peer learning community (Basecamp)
- Team work on projects
- Work with project coaches
- Monthly workshops
- Training Stipend (\$10,000)
- **Final presentations**

Final Report & Presentation CSTE

- Each team will present on their project progress in December
 - 2 dates TBD
 - Guidelines to be provided in advance
- CSTE will also ask you to fill out a final report to briefly report on your progress

Success in DSTT



More than one way



- Depending on your specific project it might make sense to...
 - Divide and conquer: Split the work between team members based on skills & interests
 - OR, Have all team members train/study/practice the same skills
 - Start with courses on Coursera, then apply the new knowledge to your project
 - Start with work on your project, then go to Coursera to find out more about a specific problem
- Engagement with program components should be driven by the needs of your project

Lessons from Year 1



- Make a project plan (subject to change, of course!)
- Build in redundancy (more than one person should know how to do key steps)
- Expect it to take longer than desired
- Ask for help
 - Project coaches
 - Other teams
 - Agency IT department
- Take a course in project management

Program Evaluation



Basecamp Tour



Coursera Tour



Action Items



- Accept invitations to online platforms when they arrive in your email:
 - Basecamp (coming 1/19/22-today!)
 - Coursera (coming 1/24/22)
- Introduce yourself on Basecamp (1/28/22)
- Complete the Baseline Assessment (2/4/22)
 - Qualtrics link coming to your email
 - Team discussion questions posted on Basecamp
- Take an intro to data science course on Coursera (e.g., A Crash Course in Data Science, Johns Hopkins University) (2/28/22)

Questions?

Kacy Chrestman, CHES
Program Analyst I
kchrestman@cste.org

Bernadette Aylward, MPH
Program Analyst I
baylward@cste.org
770-458-3811



Council of State and Territorial Epidemiologists



CSTE National Office

2635 Century Parkway NE, Suite 700
Atlanta, Ga 30324

T 770.458.3811

F 770.458.8516