Module One Pilots with Selected Laboratories

Before we pilot Module One of the *Labs That Work… For Everyone* program at Janelia and on the Illinois campus, we are planning several beta tests with graduate students recruited by team members. This initial beta will assess the user experience and understanding of how the materials land. This process will be followed by the pilot, which will address program efficacy.

Participants in pilot tests at Janelia and selected labs on the Illinois campus will be asked to complete pre- and post-test surveys, and some will be asked to participate in focus groups. These surveys will be less frequent and less extensive than will be used in the beta testing, while still gathering data on participant impressions, engagement with the program, and mastery of the skills and concepts presented.

❖ Lab leaders will:
- Receive information about the module in advance, including topics and options for implementation (cohort formation, timelines, etc.).
- Be asked to inform their lab members about the program ahead of time. Basic information that can be incorporated into communications will be provided.
- Establish a timeline for their lab's participation and and establish a schedule for lab discussion of topics. Discussion leader information and support will be provided.

❖ Lab members are asked to:
- Keep their own logbooks.
- Observe the timelines and participation intensity set by their lab heads.
- Practice introduced skills.
- Join or form a cohort that agrees to proceed through the module at about the same pace.
- Go through online sessions individually at the pace of their cohort, engaging with their cohort in online discussion groups at identified points.
- Participate in lab discussions periodically of the material covered, including at least one iREDS session about data management.

Our early tests of the existing content indicate that each of the 27 episodes takes 20-30 minutes to complete. This includes watching online videos and completing the related reflections and practice activities. These time estimates encompass allowances for the addition of online interview and content videos still in development.

Collaborating PIs and labs have informed these potential approaches for using the program in the pilot phase.

Option A (preferred): Semester-long duration (3-4 months)

In this option, lab members are asked to devote an hour of their own time a week (1-2 episodes), including time for one to three lab-group discussions with the PI participating.

❖ In this model:
- Participants are asked to watch one or two episodes per week and complete the associated parts of the logbook on their own.
- About one third of the way through, the lab group will participate in an iReds discussion session about data management. They may choose to hold a second discussion.
- The lab will participate in at least one other discussion session about how the module topics apply to their own lab setting. Lab leaders may determine what discussion topics will best serve their lab, and they may choose to hold more discussion sessions. A facilitator manual will be provided to help guide these discussions productively.

We are in discussions with a group hoping to use the program materials as the basis for a regularly scheduled course. The schedule in this case would remain the same, with 1-2 episodes a week assigned as homework, and the one class meeting per week devoted to thematic discussions based on the narrative developments in the assigned episodes. If this arm of the pilot proceeds, NCPRE will work with the instructor to build or assemble materials supporting the aim of each class session.

Option B: Academic year module; requested by one of our pilot sites

One collaborating lab has asked for a model that extends program participation over the course of an academic year with monthly lab discussions. Our initial instincts are that 9 months is too long a duration for participants to be able to integrate and retain introduced content, so we have proposed the following approach:

❖ In this model:
- Participants are asked to complete the online portion at a rate of one to two episodes a week and complete the online content and logbook in the first half of the year (one semester).
- The lab leader will devote one lab meeting (60-90 minutes) per month (8-9 total) to discussion of program content.
- Lab leaders may determine what topics they want to focus on in these discussions , and may include some scene-based discussions. At least one or two of these meetings should address iREDS/data management. A facilitator's manual will be provided to help guide each of these discussions.

Other Options:

We expect to learn a great deal more about how participants prefer to engage with the material during the beta testing process, and again more during the pilot phase. We will continue to adapt as we learn.

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