Appendix – survey instruments

Pre-Workshop Evaluation

1. Which department are you in?
2. What do you hope to learn from today's workshop?
3. How confident are you in your ability to manage data well during a research project?

   Not confident   1   2   3   4   5   Very confident

Module 1 Evaluation
Overview of Research Data Management

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module prepare you to explain what research data is?

   Not at all well   1   2   3   4   5   Very well

2. How well did this module prepare you to explain the need for managing/sharing research data and identify relevant public policies?

   Not at all well   1   2   3   4   5   Very well

3. How well did this module prepare you to explain the life cycle continuum to manage and preserve research data?

   Not at all well   1   2   3   4   5   Very well

4. How well did this module help you to understand that data should be managed differently in different phases of the life cycle?

   Not at all well   1   2   3   4   5   Very well

5. How well did this module familiarize you with data management plan (DMP) requirements used to characterize and plan for the life cycle of research data?

   Not at all well   1   2   3   4   5   Very well

6. How well did this module prepare you to identify the value and relative importance of data management to the success of a research project?

Not at all well   1   2   3   4   5   Very well

7. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

   Did not meet my needs/expectations   1   2   3   4   5   Entirely met needs

8. How useful/relevant are the instructional materials to your learning needs?

   Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

9. How appropriate was the length of the module to cover the content offered?
   a. Too long
   b. Too short
   c. Just about right

10. What content did you like best in the module? Why?

11. What content did you like least in the module? Why?

12. What would be the single most significant improvement in the content or hands-on elements of this module to help you better understand data management concepts and manage research data?

13. What questions do you still have related to data management that this module could address?

Module 2 Evaluation
Types, Formats and Stages of Data

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module prepare you to explain what a research data set is and the range of data types?

    Not at all well   1   2   3   4   5   Very well

2. How well did this module prepare you to identify stages of research data?

    Not at all well   1   2   3   4   5   Very well

3. How well did this module prepare you to identify common potential storage formats for data that will be accessible in the future and non-proprietary where possible?

    Not at all well   1   2   3   4   5   Very well

4. How well did this module prepare you to identify relevant quality control techniques/technical standards?

    Not at all well   1   2   3   4   5   Very well

5. How well did this module prepare you to identify methods of recording research data that are discipline-specific?

    Not at all well   1   2   3   4   5   Very well

6. How well did this module prepare you to define data collection recording policies/procedures for research?

    Not at all well   1   2   3   4   5   Very well

7. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

    Did not meet my needs/expectations   1   2   3   4   5   Entirely met needs

8. How useful/relevant are the instructional materials to your learning needs?

    Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

Appendix – survey instruments

9. How appropriate was the length of the module to cover the content offered?
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11. What content did you like least in the module? Why?

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13. What questions do you still have related to data management that this module could address?

Module 3 Evaluation
Contextual Details Needed to Make Data Meaningful to Others

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module help you to understand what metadata is?

    Not at all well   1   2   3   4   5   Very well

2. How well did this module help you to understand why metadata is important?

    Not at all well   1   2   3   4   5   Very well

3. How well did this module prepare you to identify applicable standards for documenting and capturing metadata?

    Not at all well   1   2   3   4   5   Very well

4. How well did this module help you to understand disciplinary practices associated with the collection and sharing of metadata?

    Not at all well   1   2   3   4   5   Very well

5. How well did this module prepare you to identify an approach to creating metadata for a project?

    Not at all well   1   2   3   4   5   Very well

6. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

    Did not meet my needs/expectations 1   2   3   4   5   Entirely met needs

7. How useful/relevant are the instructional materials to your learning needs?

    Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

8. How appropriate was the length of the module to cover the content offered?
    a. Too long
    b. Too short
    c. Just about right

9. What content did you like best in the module? Why?

10. What content did you like least in the module? Why?

11. What would be the single most significant improvement in the content or hands-on elements of this module to help you better understand data management concepts and manage research data?

12. What questions do you still have related to data management that this module could address?

Module 4 Evaluation
Data Storage, Backup, and Security

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module help you to understand why data storage, backup, and security of research data are important?

    Not at all well   1   2   3   4   5   very well

2. How well did this module help you to understand :
    a. data storage methods for research data?
        Not at all well 1   2   3   4   5 very well
    b. backup methods for research data?
        Not at all well 1   2   3   4   5 very well
    c. security methods for research data?
        Not at all well 1   2   3   4   5 very well

3. How well did this module help you to understand
    a. best practices for research data storage?
        Not at all well 1   2   3   4   5 very well
    b. access control?
        Not at all well 1   2   3   4   5 very well
    c. migration to newer storage media?
        Not at all well 1   2   3   4   5 very well
    d. security of research data?
        Not at all well 1   2   3   4   5 very well

4. How well did this module prepare you to identify an approach to creating a data storage, backup, and security plan for a project?

    Not at all well   1   2   3   4   5   very well

5. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

    Did not meet my needs/expectations 1   2   3   4   5   Entirely met needs

6. How useful/relevant are the instructional materials to your learning needs?

    Materials not at all useful/relevant 1   2   3   4   5   Materials very useful

7. How appropriate was the length of the module to cover the content offered?
    a. Too long
    b. Too short
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9. What content did you like least in the module? Why?

10. What would be the single most significant improvement in the content or hands-on elements of this module to help you better understand data management concepts and manage research data?

11. What questions do you still have related to data management that this module could address?

Module 5 Evaluation
Legal and Ethical Considerations for Research Data

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module prepare you to explain ownership considerations related to data sharing?

    Not at all well   1   2   3   4   5   very well

2. How well did this module prepare you to explain and evaluate potential legal issues connected to your data, such as :
    a. Intellectual property?
        Not at all well   1   2   3   4   5   very well
    b. Copyright claims?
        Not at all well   1   2   3   4   5   very well
    c. Licenses needed for use?
        Not at all well   1   2   3   4   5   very well
    d. Monetary charges for data?
        Not at all well   1   2   3   4   5   very well

3. How well did this module prepare you to explain ethical considerations related to data sharing?

    Not at all well   1   2   3   4   5   very well

4. How well did this module help you to understand privacy levels for research data as required by potential funding agencies?

    Not at all well   1   2   3   4   5   very well

5. How well did this module prepare you to recognize the importance of privacy with some forms of research data (HIPAA)?

    Not at all well   1   2   3   4   5   very well

6. How well did this module help you understand the importance of removing key personal identifiers to facilitate confidentiality?

    Not at all well   1   2   3   4   5   very well

7. How well did this module help you understand the need for data attribution and citation?

    Not at all well   1   2   3   4   5   very well

8. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

     Did not meet my needs/expectations 1   2   3   4   5   Entirely met needs

9. How useful/relevant are the instructional materials to your learning needs?

     Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

10. How appropriate was the length of the module to cover the content offered?
    a. Too long
    b. Too short
    c. Just about right

11. What content did you like best in the module? Why?

12. What content did you like least in the module? Why?

13. What would be the single most significant improvement in the content or hands-on elements of this module to help you better understand data management concepts and manage research data?

14. What questions do you still have related to data management that this module could address?

Module 6 Evaluation
Data Sharing and Re-Use Policies

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module prepare you to explain the benefits of sharing data?

   Not at all well   1   2   3   4   5   very well

2. How well did this module prepare you to identify issues/obstacles related to re-use and sharing?

   Not at all well   1   2   3   4   5   very well

3. How well did this module familiarize you with publishers' and licensing restrictions on re-use of data?

   Not at all well   1   2   3   4   5   very well

4. How well did this module prepare you to distinguish between Open Access, Open Science, and Open Data?

   Not at all well   1   2   3   4   5   very well

5. How well did this module familiarize you with data re-use/sharing/access requirements from funding agencies, institutions and publishers?

   Not at all well   1   2   3   4   5   very well

6. How well did this module prepare you to recognize the need to use standard data formats?

   Not at all well   1   2   3   4   5   very well

7. How well did this module prepare you to identify different options and types of repositories for sharing/reusing data?

   Not at all well   1   2   3   4   5   very well

8. How well did this module prepare you to explain what data may be shared during the different stages of the research cycle?

   Not at all well   1   2   3   4   5   very well

9. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

   Did not meet my needs/expectations   1   2   3   4   5   Entirely met needs

10. How useful/relevant are the instructional materials to your learning needs?

    Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

11. How appropriate was the length of the module to cover the content offered?
    a. Too long
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    c. Just about right

12. What content did you like best in the module? Why?

13. What content did you like least in the module? Why?

14. What would be the single most significant improvement in the content or hands-on elements of this module to help you better understand data management concepts and manage research data?

15. What questions do you still have related to data management that this module could address?

Module 7 Evaluation
Plan for Archiving and Storing Data

Please tell us more about your ratings below where you have suggestions to offer

1. How well did this module prepare you to explain options for a long-term sustainable preservation strategy/policy for your data (e.g., discipline specific, institutional, departmental)?

    Not at all well   1   2   3   4   5   very well

2. How well did this module prepare you to identify types of repositories/archives (discipline-based, institutional, etc.)?

    Not at all well   1   2   3   4   5   very well

3. How well did this module prepare you to choose a repository for long term preservation of data?

    Not at all well   1   2   3   4   5   very well

4. How well did this module help you understand process issues for depositing data in a repository?

    Not at all well   1   2   3   4   5   very well

5. How well did this module prepare you to identify issues related to discovery of relevant data sets for re-use?

    Not at all well   1   2   3   4   5   very well

6. How well did this module help you understand the need for discovery aids (querying and retrieval methods) for multiple user communities to find the data they want to re-use?

    Not at all well   1   2   3   4   5   very well

7. How well did this module prepare you to explain data management tools and services available?

    Not at all well   1   2   3   4   5   very well

8. How well did this module help you understand the costs for data storage, management tools, and services?

    Not at all well   1   2   3   4   5   very well

9. How well did the objectives of this module meet your expectations for what you need to learn regarding data management?

    Did not meet my needs/expectations 1   2   3   4   5   Entirely met needs

10. How useful/relevant are the instructional materials to your learning needs?

    Materials not at all useful/relevant   1   2   3   4   5   Materials very useful

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