A Tale of Two Assessments: A Comparison of Metrics for Data Management Education

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**Formats, Delivery Methods, and Curricula**

<table>
<thead>
<tr>
<th>Name</th>
<th>Hours of Instruction</th>
<th>Attendance</th>
<th>Location</th>
<th>Format</th>
<th>Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Management</td>
<td>8</td>
<td>12</td>
<td>University of Tennessee, Knoxville</td>
<td>Live Lecture at 1 Site</td>
<td>New England Collaborative Data Management Curriculum¹</td>
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<tr>
<td>Basics Workshop</td>
<td></td>
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<tr>
<td>Data Management</td>
<td>20</td>
<td>30 @ VT</td>
<td>Virginia Tech + 5 other Virginia Universities</td>
<td>Teleconferenced Lectures at 7 Sites</td>
<td>Developed by Presenters</td>
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<tr>
<td>Bootcamp</td>
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**Data Management Basics Workshops Assessments (Selected Results)**

**Pre-Workshop Assessment**

How confident are you in your ability to manage data well?

- prepare you to explain what research data is?
- explain the need for managing/sharing research data and identify relevant public policies?
- explain the life cycle continuum to manage and preserve research data?
- help you to understand that data should be managed differently in different phases of the life cycle?
- familiarize you with the data management plan requirements used to characterize and plan for the life cycle of research data?
- prepare you to explain the importance of data management to the success of a research project?

**On-site Assessment**

- How well did this workshop:
  1. prepare you to explain what research data is?
  2. explain the need for managing/sharing research data and identify relevant public policies?
  3. explain the life cycle continuum to manage and preserve research data?
  4. help you to understand that data should be managed differently in different phases of the life cycle?
  5. familiarize you with the data management plan requirements used to characterize and plan for the life cycle of research data?
  6. prepare you to explain the importance of data management to the success of a research project?

And two general questions:

- How well did the objectives of this workshop meet your expectations for what you need to learn regarding data management?
- How useful/relevant are the instructional materials to your learning needs?

**On-Site Bootcamp Assessment**

6. Overall, how likely are you to recommend this training to your colleagues?

25% likely

**Data Management Bootcamp Assessments (Selected Results)**

I found the Data Management Bootcamp to be beneficial to my understanding of:

1. Research Data
2. Data Management Principles
3. Data Organization
4. Data Documentation and Metadata
5. Data File Formats and Transformations
6. Data Storage, Security and Encryption
7. Grant Funding Agency Requirements
8. Rights and Licensing of Research Data
9. Human Subject Protection, Privacy and Confidentiality
10. Data Preservation and Data Sharing

**Important Considerations**

For Planning a Workshop at Your Institution

<table>
<thead>
<tr>
<th>Length</th>
<th>Format</th>
<th>Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short workshop</td>
<td>More difficult to deliver</td>
<td>Custom designed more relevant to audience More time consuming to create</td>
</tr>
<tr>
<td>Long workshop</td>
<td>More difficult to deliver</td>
<td>Pre-planned more relevant to audience More time consuming to create</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Pre-Bootcamp Assessment</th>
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<tbody>
<tr>
<td>3. I am confident about my ability to manage my research data.</td>
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</table>

<table>
<thead>
<tr>
<th>On-Site Bootcamp Assessment</th>
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<tbody>
<tr>
<td>6. Overall, how likely are you to recommend this training to your colleagues?</td>
</tr>
</tbody>
</table>

**Assessment Results**

- **Data Management Basics Workshops**
  - Average score: 3.8
  - N = 12
  - 5-point Likert Scale

- **Data Management Bootcamp**
  - Average score: 18
  - N = 29
  - 3-point Likert Scale

¹ http://library.umassmed.edu/necdmc/index