

## Appendix 1

The following tables show the number of learning objectives per competency area which are represented in each workshop, as well as the percentage of total learning objectives per competency area which are represented in each workshop.

Competency Area	Total Learning Objectives	Data Management: 101 v. 20160112		File Organization v. 20170718		Version Control v. 20130129	
		Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered
Databases, Data Sets, and Data Formats	36	3	8%	2	6%	0	0%
Discovery and Acquisition of Data	27	0	0%	0	0%	0	0%
Data Management and Organization	36	4	11%	7	19%	0	0%
Quality Assurance	18	0	0%	0	0%	0	0%
Data Conversion and Interoperability	27	9	33%	0	0%	0	0%
Metadata	36	3	8%	1	3%	1	3%
Data Curation and Re-Use	27	5	19%	0	0%	0	0%
Cultures of Practice	18	0	0%	0	0%	0	0%
Data Preservation	27	5	19%	0	0%	0	0%
Data Analysis	18	0	0%	0	0%	0	0%
Data Visualization	27	0	0%	0	0%	0	0%
Ethics, including citation of data	36	3	8%	0	0%	0	0%
Total	333	32	10%	10	3%	1	0%

Competency Area	Total Learning Objectives	Strategies for Data Sharing & Storage v. 20180117		Using Metadata to Find, Interpret, & Share Your Data v.20150121		Data Management Plans & the DMP Tool v. 20170411	
		Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered
Databases, Data Sets, and Data Formats	36	1	3%	0	0%	0	0%
Discovery and Acquisition of Data	27	0	0%	0	0%	0	0%
Data Management and Organization	36	0	0%	2	6%	3	8%
Quality Assurance	18	5	28%	0	0%	0	0%
Data Conversion and Interoperability	27	8	30%	0	0%	0	0%
Metadata	36	0	0%	8	22%	1	3%
Data Curation and Re-Use	27	0	0%	3	11%	4	15%
Cultures of Practice	18	0	0%	3	17%	0	0%
Data Preservation	27	5	19%	0	0%	0	0%
Data Analysis	18	0	0%	0	0%	0	0%
Data Visualization	27	0	0%	0	0%	0	0%
Ethics, including citation of data	36	7	19%	0	0%	3	8%
<b>Total</b>	<b>333</b>	<b>26</b>	<b>8%</b>	<b>16</b>	<b>5%</b>	<b>11</b>	<b>3%</b>

Competency Area	Total Learning Objectives	Data Management for Postdocs and Research Scientists v. 20180109		Quick and Dirty Data Management v. 20180425		Managing Your Research Code v. 20180124	
		Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered	Objectives Covered	Percentage of Learning Objectives Covered
Databases, Data Sets, and Data Formats	36	11	31%	6	17%	6	17%
Discovery and Acquisition of Data	27	8	30%	4	15%	0	0%
Data Management and Organization	36	22	61%	10	28%	2	6%
Quality Assurance	18	4	22%	2	11%	0	0%
Data Conversion and Interoperability	27	12	44%	19	70%	0	0%
Metadata	36	14	39%	6	17%	8	22%
Data Curation and Re-Use	27	17	63%	1	4%	14	52%
Cultures of Practice	18	6	33%	1	6%	1	6%
Data Preservation	27	25	93%	5	19%	10	37%
Data Analysis	18	7	39%	2	11%	5	28%
Data Visualization	27	0	0%	0	0%	0	0%
Ethics, including citation of data	36	9	25%	2	6%	6	17%
Total	333	135	41%	58	17%	52	16%