

Training Resources Guide - WDS Members

WDS Member Organization	Description	URL	Core Certification Keywords	Material Type(s)	Are Resources Free of Charge?	Is Training Ongoing or a One-off?
Data Archiving and Networked Services	A blended-learning course Essentials 4 data supporters.	http://datasupport.researchdata.nl/en/	Licenses, Confidentiality/ethics, Organizational infrastructure, Expert guidance, Data integrity and authenticity, Appraisal, Documented storage procedures, Preservation plan, Data quality, Workflows, Data discovery and identification, Data reuse.	Online course, discussion forum, face-to-face with certificate (full course only)	Online only (with/without registration) – Yes. Full course – No.	Ongoing.
Earth Science Information Partners	Data Management Training (DMT) Clearinghouse developed by ESIP members.	http://dmtclearinghouse.esipfed.org/	Mission/Scope, Licenses, Continuity of access, Confidentiality/ethics, Expert guidance, Preservation plan, Data quality, Data discovery and identification, Data reuse.	PDF documents including hands-on exercises, presentation videos and slides.	Yes.	The DMT Clearinghouse continues to be updated. The short course was a one-off exercise.
	Modules that developed as part of a short course on data management topics.	http://commons.esipfed.org/datamanagementshortcourse				
Elsevier	Resources for researchers interested in Research Data Management.	https://www.publishingcampus.elsevier.com/pages/271/Colleges/College-of-Skills-Training/Research-Data.html	Data discovery and identification, Data reuse.	Online lectures, PDF documents, videos, links to online tools.	Yes. Account required for online lectures.	Will continue to be updated.
International Oceanographic Data and Information Exchange	The Data (top) and Information (bottom) Management sections of OceanTeacher, a comprehensive e-Learning platform developed by IODE to help, in combination with classroom training, to build equitable capacity related to ocean research, observations, and services in IOC Member States.	http://classroom.oceanteacher.org/tag/index.php?tag=Data%20Management	Context, Mission/Scope, Licenses, Confidentiality/ethics, Organizational infrastructure, Expert guidance, Data integrity and authenticity, Appraisal, Documented storage procedures, Preservation plan, Data quality, Workflows, Data discovery and identification, Data reuse, Technical infrastructure, Security.	Presentation videos and slides, Microsoft Word/PDF documents, images, links to web-based information; face-to-face courses.	The materials can be freely accessed through OceanTeacher. Carrying out a course depends on the financial contribution of IODE.	New courses will continue to be run.
		http://classroom.oceanteacher.org/tag/index.php?tag=Information%20Management				

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Inter-university Consortium for Political and Social Research	ICPSR's data management and curation page.	http://www.icpsr.umich.edu/icpsrweb/content/data-management/index.html	Mission/Scope, Continuity of access, Confidentiality/ethics, Organizational infrastructure, Expert guidance, Data integrity and authenticity, Appraisal, Documented storage procedures, Preservation plan, Data quality, Workflows, Data discovery and identification, Data reuse, Security.	Web-based guidance, with links to external resources; face-to-face courses.	Online resources – Yes. Courses – No.	Courses are held every year. Online resources are updated periodically.
	Courses conducted by ICPSR as part of its Summer Programme.	https://www.icpsr.umich.edu/icpsrweb/content/summer-program/courses.html				
ISRIC - WDC Soils	Information about ISRIC training activities, including Global Soil Information Facilities tutorials.	http://www.isric.org/index.php/utilise/capacity-building	Expert guidance, Data reuse.	Videos, PDF documents, and links to web-based information; face-to-face courses.	Face-to-face courses typically require a fee, although some are covered by ISRIC. All online resources are free.	Courses are ongoing, and online resources continue to be updated.
	Recorded sessions on the ISRIC YouTube channel.	http://youtube.com/c/ISRICorg				
NASA Earth Science Data and Information System Project	EOSDIS webinars and tutorials page. Most material is targeted toward data users.	https://earthdata.nasa.gov/user-resources/webinars-and-tutorials	Mission/Scope, Data integrity and authenticity, Preservation plan, Data quality, Workflows, Data discovery and identification, Data reuse, Technical infrastructure, Security.	Videos, and links to (mainly external) 'data recipes' that are either web-based or downloadable documents.	Yes.	Ongoing.
	Materials targeted towards data providers/managers.	https://www.youtube.com/watch?v=5ObCzQhxiM				
		https://www.youtube.com/watch?v=3bk0EAM6noM https://www.youtube.com/watch?v=QvrXpLJsjDY				
Oak Ridge National Laboratory Distributed Active Archive Center	Detailed material on data management written for data providers.	http://daac.ornl.gov/P1/pi_info.shtml	Expert Guidance, Data integrity and authenticity, Appraisal, Preservation plan, Data quality, Data discovery and identification, Data reuse.	Web-based information, videos, PDF documents, and links to online tools.	Yes.	Pages are reviewed and updated periodically.
OpenAIRE	Briefing paper on Research Data Management.	https://www.openaire.eu/briefpaper-rdm-infonoads	Licenses, Data discovery and identification, Preservation plan, Data reuse.	PDF document, presentation videos and slides.	Yes.	Ongoing.

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	Webinar recordings and slides about Research Data Management and about writing a Data Management Plan.	https://eudat.eu/events/webinars				
ORCID	Collect & Connect: ORCID's integration and engagement program.	https://orcid.org/content/collect-connect	Data discovery and identification.	Web-based information, and links to presentation videos.	Yes.	Collect and connect is ongoing. The webinars were a one-off exercise.
	A series of three webinars focusing on applications of persistent identifiers (PIDs).	https://www.youtube.com/watch?v=d_t7724DqNU https://www.youtube.com/watch?v=93kBLs8fojl				
Permanent Service for Mean Sea Level	Training materials relating to all aspects of sea level data collection, processing, analysis, and management.	http://www.psmsl.org/train_and_info/	Expert Guidance, Data integrity and authenticity, Appraisal, Documented storage procedures, Data quality, Workflows, Data reuse, Technical infrastructure.	Links to web resources, PDF documents, and presentation slides	Yes.	Online resources will be updated.
	The IOC Manuals and Guides No. 14: Volumes I – V.	http://www.psmsl.org/train_and_info/training/manuals/				
	Presentations from training courses	http://www.psmsl.org/train_and_info/training/presentations/				
Socioeconomic Data and Applications Center	Seven online learning objects on data management topics that were created as part of a collaborative effort to develop modules for a short course, with recorded professional voice-over and slide presentations.	http://dx.doi.org/10.7269/P3S46PVB http://dx.doi.org/10.7269/P3WW7FKR http://dx.doi.org/10.7269/P3V40S4H http://dx.doi.org/10.7269/P3HQ3WTM http://dx.doi.org/10.7269/P3NC5Z41 http://dx.doi.org/10.7269/P3RB72J0 http://dx.doi.org/10.7269/P3MK69T8	Mission/Scope, Licenses, Confidentiality/ethics, Preservation Plan, Data discovery and identification, Data reuse.	Presentation videos and slides.	Yes.	One-off.

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Swedish National Data Service	A set of four presentations on Research Data Management. The presentations are not independent, and contain similarities, but are made for different audiences.	http://prezi.com/ljqvqwwafv wz/ http://prezi.com/nhv4n8di2ihu/ http://prezi.com/v9blhpno7vwo/ http://prezi.com/zaew51jib16g/	Confidentiality/ethics, Data integrity and authenticity, Preservation plan, Data discovery and identification, Data reuse, Technical infrastructure, Security	Presentation slides.	Yes.	Each presentation is a one-off exercise, but more maybe added in the future.
The Royal Society of New Zealand	A paper on best practice for biodiversity data that can used as a source of links to resources cited.	https://drive.google.com/a/icsu-wds.org/file/d/0ByyGtY4J2lcadjRtd1U2QlpWdjQ/view?usp=sharing	Licenses, Ethics, Data quality, Workflows, Data discovery and identification, Data reuse.	Not training materials per se, but a useful, high-level overview of the research data management practices in the field of biodiversity that maybe transferable to other disciplines.	Accessing some of the papers cited may require payment.	One-off.
WDC - Earth Resources Observation and Science	Four policies (SM 502.6–502.9) released by USGS that build upon its science data lifecycle model.	https://www2.usgs.gov/fsp/policies.asp	Mission/Scope, Continuity of access, Confidentiality/ethics, Data integrity and authenticity, Preservation plan, Data quality, Workflows, Data discovery and identification, Data reuse, Security.	Not training materials per se, but useful, high-level overviews of the research data management practices in place at U.S. Geological Survey that maybe transferable to other organizations.	Yes.	The policies will continue to be updated.
WDC - Oceanography, Obninsk	Development of the IOC UNESCO Oceanographic Data Portal (ODP) is made by carrying out international courses. Information on the ODP course programme is placed in IODE OceanTeacher.	http://classroom.oceanteacher.org/course/view.php?id=174	Expert guidance, Organizational infrastructure, Preservation plan, Data quality, Data discovery and identification, Data reuse, Technical infrastructure.	Presentation videos and slides; face-to-face courses.	The materials can be freely accessed through OceanTeacher. Carrying out a course depends on the financial contribution of IODE.	Ongoing.
World Glacier Monitoring Service, Zurich	An overview of the international summer schools held by WGMS on mass balance measurements and analysis can be found on this page by scrolling down to TRAINING COURSES..	http://wgms.ch/projects/	Continuity of access, Expert guidance, Data integrity and authenticity, Data quality, Workflows, Technical infrastructure.	PDFs of reports, presentations, guidance documentation, and so on; face-to-face courses.	Online resources from past courses are free. Face-to-face courses require a fee, but these are sometime covered.	Ongoing.