Research Data Management

LIBRARIAN ACADEMY (RDMLA)

MLA 2019

Elaine Martin, and Jean P. Shipman

Agenda

- Overview
  - What is RDMLA
  - Partner Institutions
  - The RDMLA Team
  - Timeline
- RDMLA Curriculum & Unit Development
  - RDMLA Curriculum
  - Units
- Simmons SLIS CE
- Next Steps

What is RDMLA?

- An online educational program offering individuals to learn about research data management practices.

- Developed by a team of librarians who have expertise with RDM.

- The Academy offers eight units which can be taken separately or as a group.

- All units will be hosted online via the Canvas platform.

Project Timeline

Needs Assessment and Training Inventory

Summer - Fall 2018

○ A needs assessment survey via Library Connect
○ A competency scan and an inventory of training and formal RDM curricula
● A LIS educator short survey

Research Data Management Librarian Academy Survey

Results compiled 2018-09-08 by
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Access the Phase I Report here:
https://rdmla.github.io/home/

Needs Assessment Survey

Timeline
2018-04-23 - 2018-09-04

Instrument
19 questions developed by Harvard Medical School and Elsevier

Distribution
Relevant groups via:
- Email
- Library Connect blog post
- Listservs
- Word of mouth
- Conferences & events
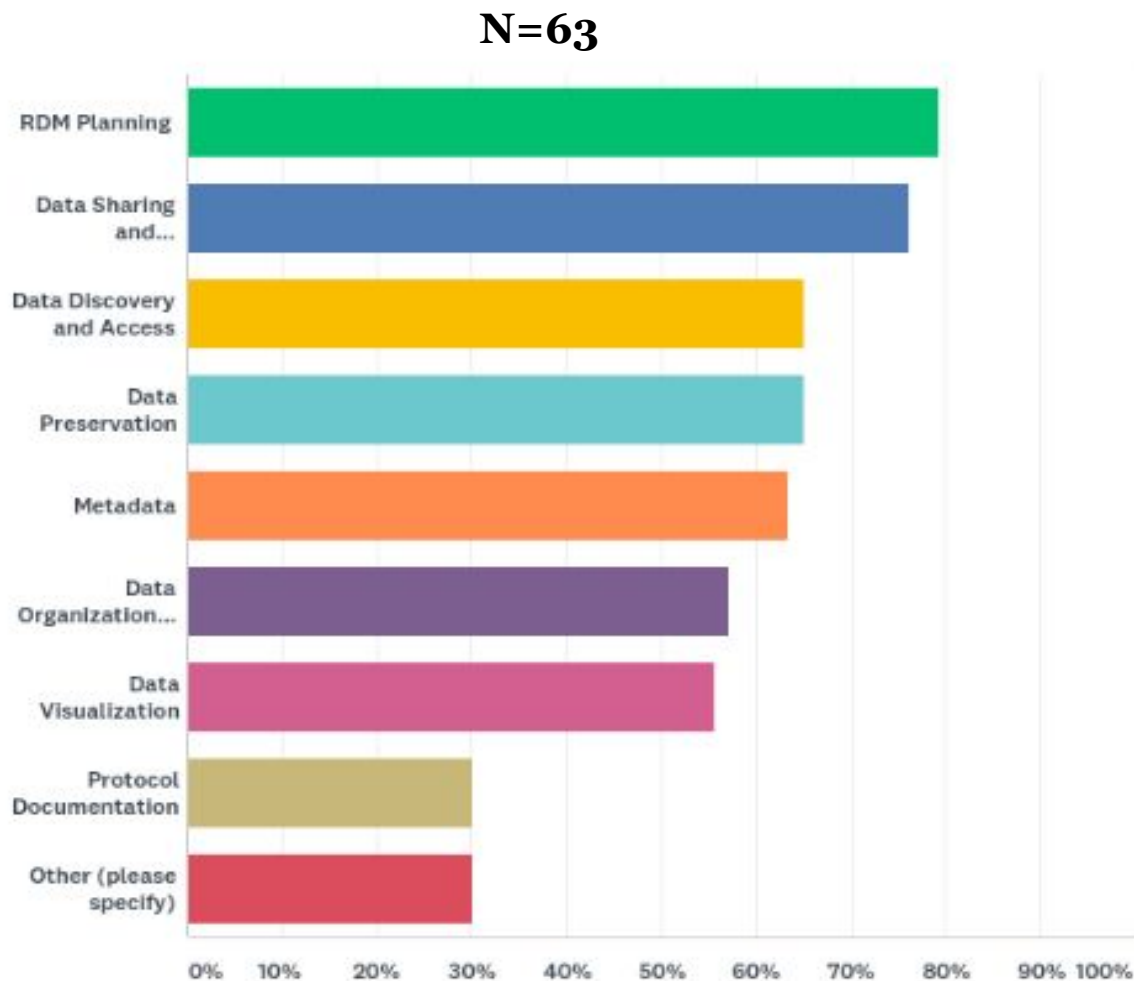
Responses
241 responses collected by 2018-09-04
Majority of responses during May 2018
628 Qualitative, open-answer responses hand-coded

Q16. What RDM services does your institution offer? (select all that apply)
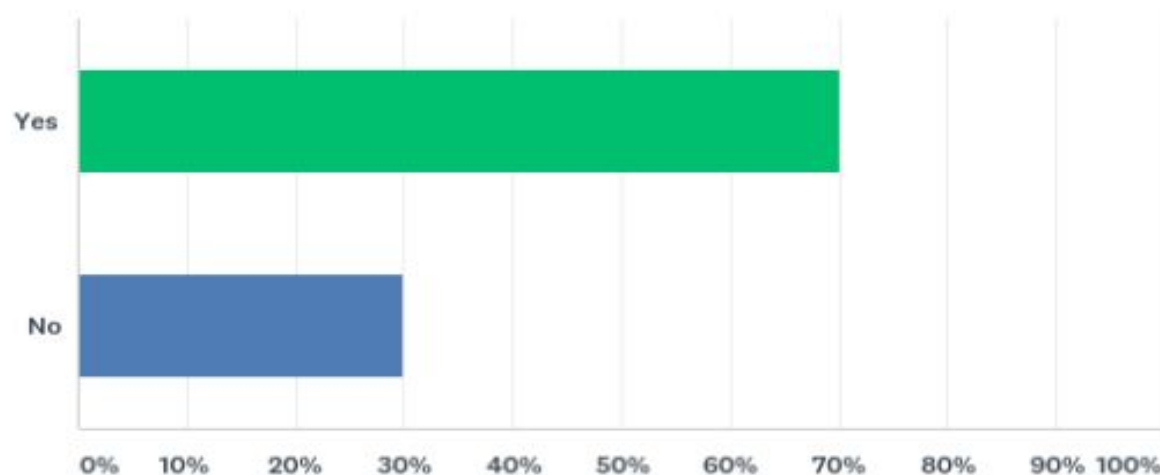
N=63

PHASE 1

Survey Questions & Results

Q6a. Do you personally feel prepared to offer RDM services?
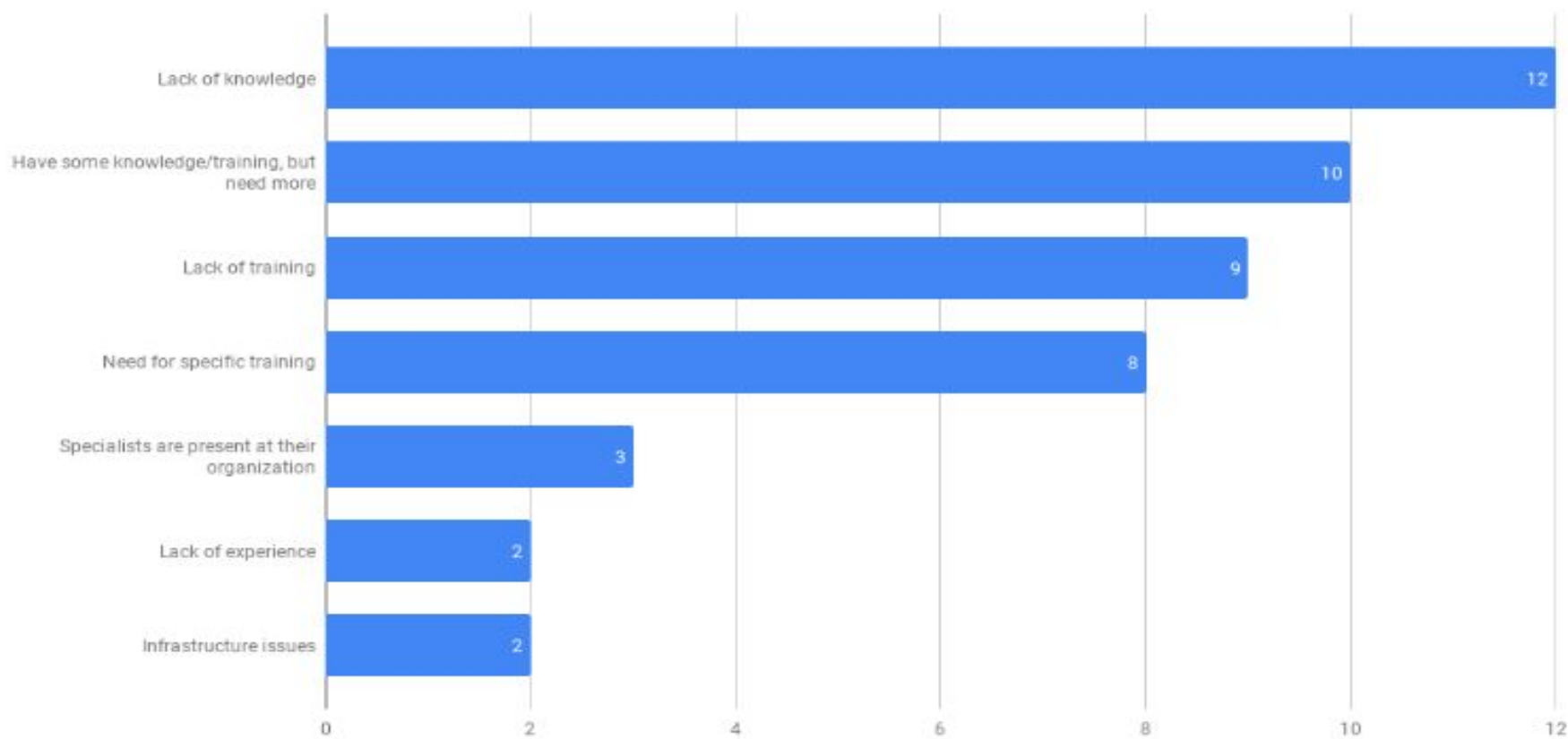
N=87

Q6b. Respondents who did not feel prepared to offer RDM services indicated why:
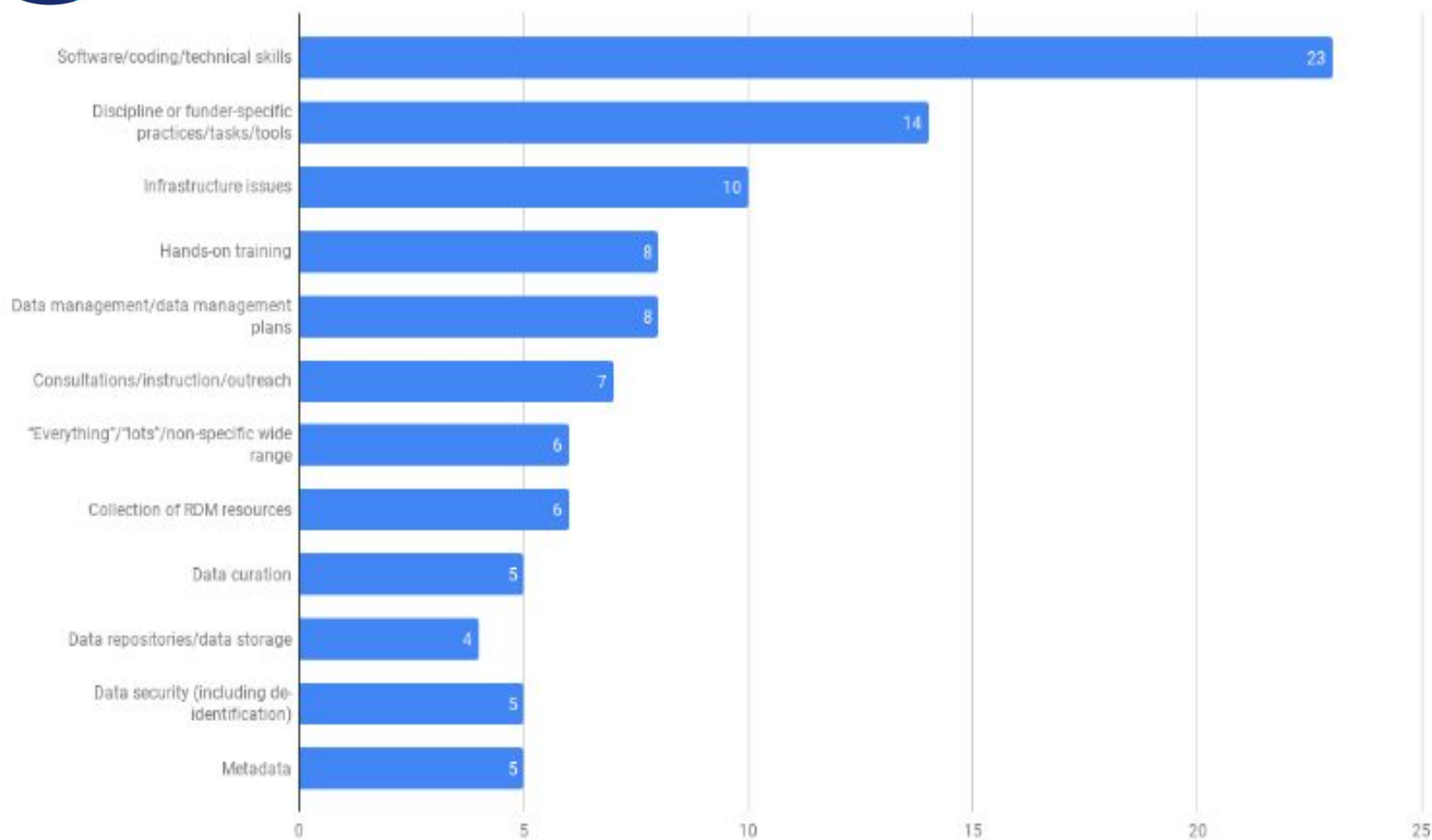
N=54

Q7. What further RDM training do you need?

N=66

PHASE **1**

LIS Educator Analysis

Survey & Course Review Results

- Six respondents (5 NOAM, 1 Europe)
- All offered RDM courses
  - Data analytics
  - Data capture
  - Data visualization
  - Data & text mining
  - Data science &n management
- Courses offered online, in-person, or hybrid
- Overlapping results between Educator Survey and ALA/LIS schools' RDM curricula review

PHASE 1

Competencies Scan & Data Science Training & Curricula Inventory

Competencies Scan

- Analyzed 44 Position Descriptions
- Examined 16 websites of 14 data-related groups

Training Opportunities

Analyzed 164 training programs (MOOCs, Webinars & Workshops)

Formal Data Science Curricula

- Courses/programs **outside LIS**: 22 courses/programs from 13 universities
- **ALA accredited programs**: 25 courses from 14 schools
- **iSchools**: 165 courses from 45 iSchools

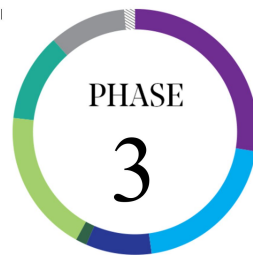Job Description Competencies

Project Timeline

Academy Content Development

Spring - Summer 2019

- Academy course unit design and development
- Video recording, implementation of exercises and interactive learning objects
- Establish Simmons CE process
- Usability and UX tests
- QA tests

Launch

Fall 2019

- Formal launch of RDMLA
- CE credit issuance (start in January 2020)

Partner Institutions

- Harvard Medical School

- Harvard University

- Simmons University

- Boston University

- Brown University

- Massachusetts College of Pharmacy and Health Science University

- Northeastern University

- Tufts University

- Elsevier

RDMLA Development Team

Leadership	• Elaine Martin (Harvard) • Rong Tang (Simmons) • Jean Shipman (Elsevier)
Project Staff	• Zhan Hu (Simmons) • Irena Fayngold & Ellen Berrigan (ID, Simmons) • Courtney Bohr & Ashley Thomas (Simmons)
Faculty	• See next slide
Simmons SLIS Simmons Online	• Sanda Erdelez (SLIS Director, Simmons) • Kristen Palson (Simmons Online)

RDMLA Faculty

- Elaine Martin (Harvard); Julie Goldman (Harvard); Danielle Pollock (Simmons); Philip Coombs (BU);

- Andrew Creamer (Brown)

- Ceilyn Boyd (Harvard); Elaine Martin (Harvard); Richard Kaplan(MCPHS); Eric Albright (Tufts); Mary Blanchard (BU)

- Jen Ferguson (Northeastern); Rebecca Morin (Tufts)

- Rachel Lewellen (Harvard); Alison Thornton (Harvard); Denielle Adams (Harvard)

- Berika Williams (Tufts)

- Scott Lapinski (Harvard; Roger Vargas (Harvard)

- Julie Goldman (Harvard); Scott Lapinski (Harvard); Jean Shipman (Elsevier)

The RDMLA Curriculum

- 8 Unit + 1 Assessment Unit (for CE)

RDMLA

- Foundations of RDM
- Navigating Research Data Culture
- Advocating and Marketing the Value of RDM in Libraries
- Launching Data Services in Libraries
- Project Management & Assessment
- Overview of Data Analysis and Visualization Tools
- Overview of Coding Tools
- Overview of Platform Tools

Note: The Mendeley Data modules developed by Elsevier would be included in RDMLA Unit 8

RDMLA Units 1-2

Foundations of RDM

- Instructors: Philip Coombs, Elaine Martin, Danielle Pollock, Julie Goldman
- Introduction to the full range of RDM services based on DataOne data lifecycle stages, with a clear understanding of the role of the librarian/information professional.

Navigating Research Data Culture

- Instructor: Andrew Creamer
- RDM librarians need to understand researcher roles and research culture so they can design their services to meet the needs of research teams

RDMLA Units 3-4

Advocating and Marketing the Value of RDM in Libraries

- Instructors: Ceilyn Boyd; Richard Kaplan; Eric Albright; Mary Blanchard; Elaine Martin
- By using case studies of effective advocacy, make the case why libraries are the institutions that should offer data services to research projects

Launching Data Services in Libraries

- Instructor: Jen Ferguson; Rebecca Morin
- Focuses on what RDM services to deliver and how those services will be delivered (will use international case studies)

RDMLA Units 5-6

Project Management & Assessment

- Instructors: Rachel Lewellen; Alison Thornton; Danielle Adam
- Focuses on the project management aspect of RDM services and assessing that the services offered are effective at meeting their objectives.

Overview of Data Analysis and Visualization Tools

- Instructor: Berika Williams
- RDM Services can include processing, analyzing, and visualizing research data. This unit gives high level overivew of tools needed for these tasks.
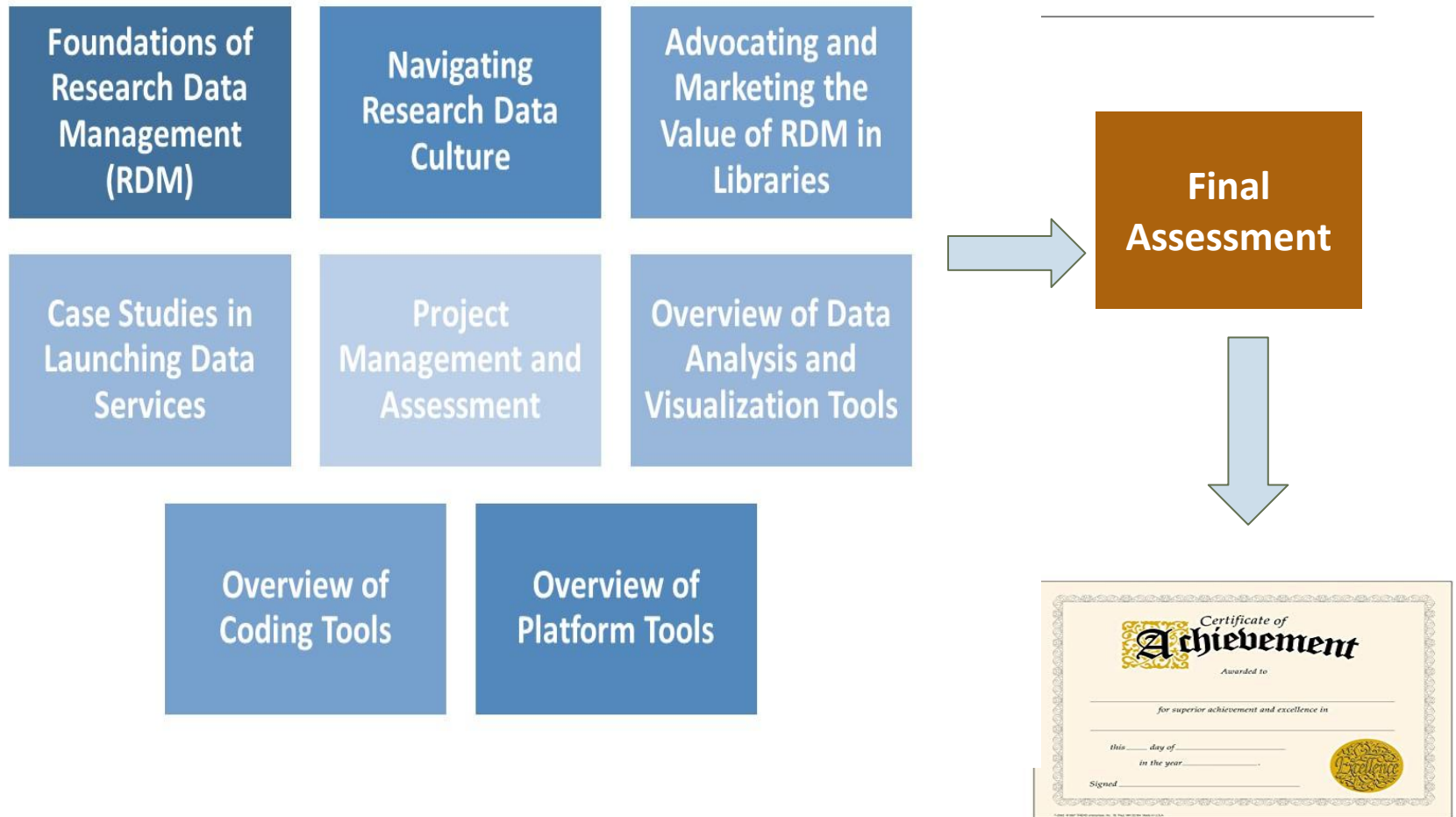
RDMLA Units 7-8

Overview of Coding Tools

- Instructor: Scott Lapinski; Roger Vargas
- Focus on particular programming tools such as Python and Jupyter Notebook by providing a higher level overview of the tools but not specific procedure of using the tools.
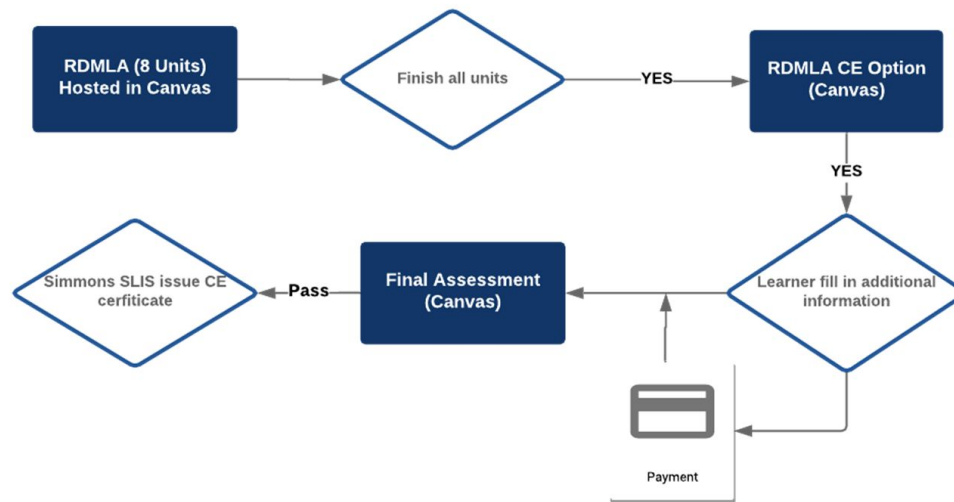
Overview of Platform Tools

- Instructor: Julie Goldman; Scott Lapinski; Jean Shipman
- RDM Services can't be accomplished without data repositories. This unit introduces platforms used for sharing data and collaborating.

Course Units & CE certificate

Foundations of Research Data Management (RDM)

Navigating Research Data Culture

Advocating and Marketing the Value of RDM in Libraries

Case Studies in Launching Data Services

Project Management and Assessment

Overview of Data Analysis and Visualization Tools

Overview of Coding Tools

Overview of Platform Tools

Final Assessment

Certificate of Achievement

Awarded to

for superior achievement and excellence in
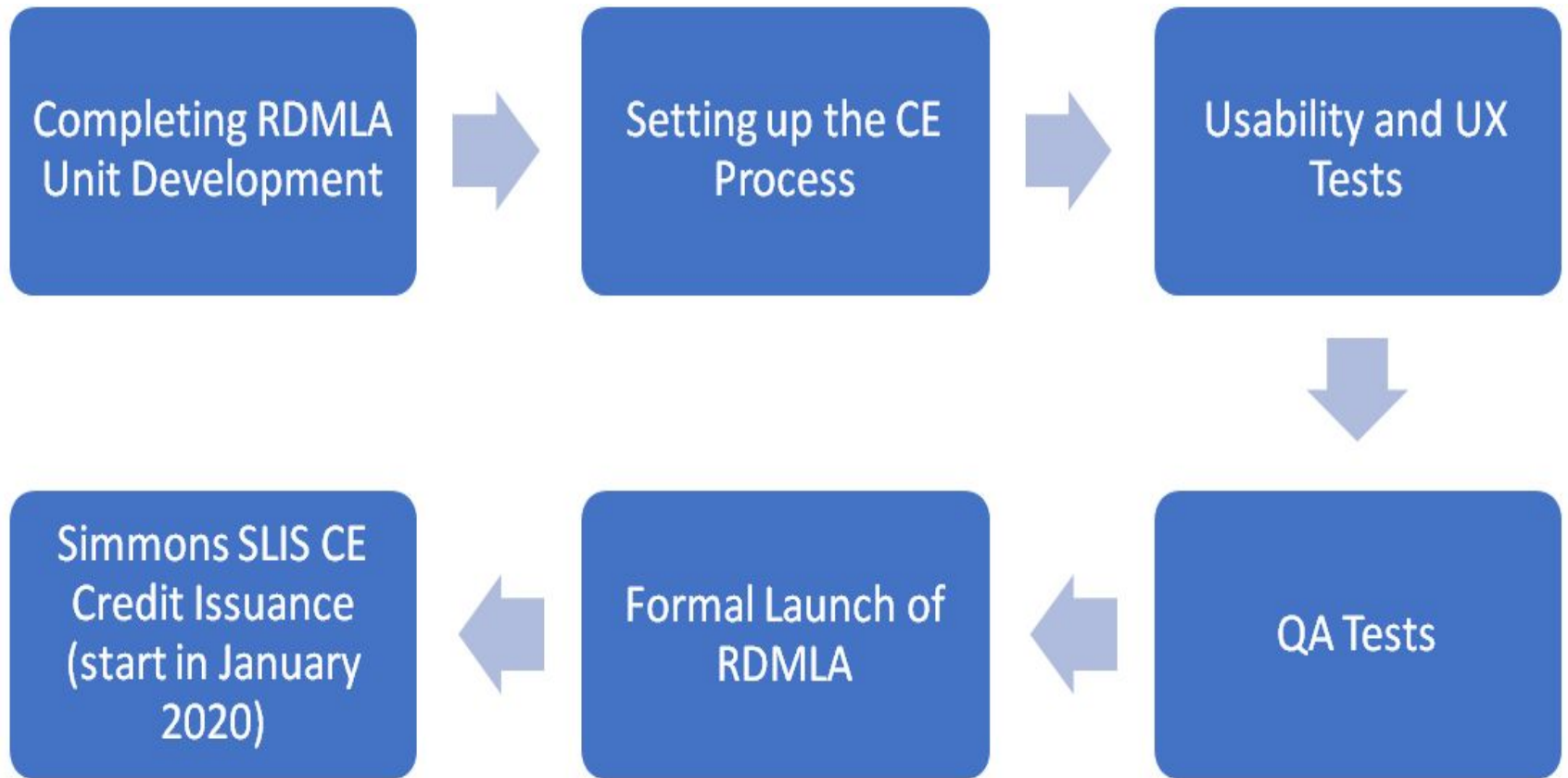
this _____ day of _____
in the year _____.

Signed _____

The CE Process

- RDMLA learners access course units on Canvas

- Upon completing each unit, they receive a unit completion certificate

- After they complete all eight units, if they choose to obtain Simmons CE credits, they pay a fee, take the RDMLA overall assessment test, and

- By passing the test, they receive Simmons SLIS CE credits

Next Steps

Completing RDMLA Unit Development → Setting up the CE Process → Usability and UX Tests ↓ QA Tests → Formal Launch of RDMLA → Simmons SLIS CE Credit Issuance (start in January 2020)

THANK YOU!

Please tell your community members about

Questions?