Seattle Digital Equity Initiative

Digital skill sets for diverse users
A comparison framework for curriculum and competencies

Stacey Wedlake and David Keyes
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Outline

- City of Seattle’s Digital Equity Initiative
- Approach
- Frameworks and Curricula
- Skills and categories
  - Is this helpful? Exercise/discussion
- Assessments
- Putting this into practice and longer term opportunities
- Questions & contact info
Seattle digital equity program

We envision Seattle as a city where technology’s opportunities equitably empower all residents and communities – especially those who are historically underserved or underrepresented.

- Skills Training
- Connectivity
- Devices & Tech Support
- Applications & Online Services
Learner types

- Beginner users (gateway skills)
- Life skills (applied tech skills)
- Youth education (HS prep for college and career basics)
- Parent engagement
- Work (employment foundations)

Out of scope for this research
- All of K-12 education & STEM
- Tech careers - Applied and tech specific
- Small businesses & entrepreneurship
Linking frameworks to curriculum

- Frameworks meant to be more global or holistic...More adaptive to changing technology if written well.
6 Frameworks

- DigComp 2.1 (EU)
- Essential Digital Skills (UK)
- International Computer Driving License (ICDL)
- International Society for Technology in Education (ISTE)
- Mozilla Web Literacy
- Northstar Assessment

9 Curricula

- Compass Digital Skills (EU)*
- Digital Learn
- Google Applied Digital Skills*
- Mozilla Core Curriculum*
- GCF Teacher Guide
- Learn My Way (UK)
- Literacy Source
- Microsoft Imagine Academy
- Seattle Goodwill

*Connected to framework

Available in other languages. Spanish: Digital Learn, GCF. Microsoft: Spanish, Vietnamese, Chinese, Russian, Japanese...
Ten skill categories for the range of learners

Gateway (11 skills)

Communication (8 skills)  Creation (8 skills)  Online Life (11 skills)

Workplace (9 skills)  Privacy & Security (7 skills)

Mobile (6 skills)  Information skills (7 skills)

Device ownership (4 skills)  Lifelong Learning (3 skills)
Skills example: Gateway

1. Basic mouse functionality
2. Password basics
3. Set up an email account
4. Sending and receiving an email including using attachments
5. Basic internet searching
6. Browser skills
7. Using an operating system
8. Understanding what the internet and web are
9. WIFI and Internet connections
10. Share devices and public Internet privacy and security
11. Accessibility tools on device
Skills covered by curriculum

- Gateway skills
- Communication
- Creation
- Device ownership
- Info skills
- Lifelong learning
- Mobile
- Online life
- Privacy & Security
- Workplace

Learn My Way
Northstar Guide
GCF Teacher Guide
Digital Learn
Literacy Source
SEA Goodwill
Mozilla Curr
Google
Compass
Microsoft
What skills for which learners

- Report recommends skills learners need to achieve their goals
  - A few examples (see the handout)
    - Skills for employment
    - Senior citizens
    - Parents
Is this helpful?

Exercise:

• Think of a learner (e.g. limited English speaker, older adult, childcare provider, etc.)
• Which skills are necessary for them? Priorities?

Discussion:

• Could you use this with a learner to set goals and mark progress?
• Could you use the skill list and comparisons to evaluate or select your curriculum?
## Assessments

<table>
<thead>
<tr>
<th>Framework</th>
<th>Assessments</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGCOMP</td>
<td>Not official – multiple choice; self-assessment</td>
<td>Multiple choice; self-assessment</td>
</tr>
<tr>
<td>ICDL</td>
<td>Performance based</td>
<td>In-person paid</td>
</tr>
<tr>
<td>Northstar</td>
<td>Multiple choice</td>
<td>Free online &amp; official, in-person</td>
</tr>
<tr>
<td><strong>Curriculum</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compass</td>
<td>Pre &amp; post test tied to module completion</td>
<td>Free online</td>
</tr>
<tr>
<td>Google</td>
<td>G Suite certification exam</td>
<td>Paid exam (online or in-person)</td>
</tr>
<tr>
<td>Literacy Source</td>
<td>Instructor skills checklist</td>
<td>In-class</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Office Specialist (MOS) online test</td>
<td>Free online for WA residents via library. Otherwise, paid.</td>
</tr>
</tbody>
</table>
Putting this into practice

- Use for a checklist to examine & select trainings.
- Use it with a learner to set goals.
- Gather with other instructors to share curriculum & assessments.
- Use to guide or evaluate online services (what skills are required to use? Who has those skills? Who doesn’t?).
- Reference use for funding applications.
Longer-term opportunities

Post the framework so others can add their curriculum.

Plan to update the framework.

Find or encourage training development to fill skill gaps incl. Mobile and Safety & Privacy, online misinformation threats, saving documents (locally and to cloud).

Develop more skill assessments tied to curriculum & frameworks

Promote/develop additional research and platform to add other frameworks & curriculum.
Digital Equity Network

How could this be helpful to your work?

Do you see a project that you’d like to work on here?
Thank You!

David Keyes, Digital Equity Program Manager
City of Seattle Information Technology (Seattle IT)

Seattle.gov/tech
david.keyes@seattle.gov
(206) 386-9759

Stacey Wedlake, Research Coordinator and Analyst
Technology and Social Change Group (TASCHA)
University of Washington Information School
staceyaw@uw.edu
tascha.uw.edu

Find more information at:
seattle.gov/tech/initiatives/digital-equity
Supplemental materials
**Approach**

Compare existing digital literacy frameworks and curricula

For skills covered, not curricula quality.
### Connected frameworks and curriculum

<table>
<thead>
<tr>
<th>Framework</th>
<th>Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>DigComp2.1</td>
<td>Compass</td>
</tr>
<tr>
<td>ICDL</td>
<td>ICDL* (available by payment)</td>
</tr>
<tr>
<td>ISTE**</td>
<td>Google Applied Digital Skills (some lessons)</td>
</tr>
<tr>
<td>Mozilla Web Literacy</td>
<td>Mozilla Core Curriculum*</td>
</tr>
<tr>
<td>Northstar</td>
<td>Under development*</td>
</tr>
</tbody>
</table>

*same organization developed framework and curriculum
** other curricula map to ISTE but not focused on general adult audiences
Types of skills covers varies by framework

![Bar chart showing the number of skills covered by different frameworks: DIGCOMP 2.1, Essential Digital Skills, ICDL, ISTE - Students, Mozilla Web Literacy, and Northstar. Each bar is segmented into different colors representing different skill types such as Communication, Device ownership, Info skills, Mobile, Privacy & Security, Creation, Gateway skills: Essential foundations, Lifelong learning, Online life, and Workplace.]