

CREDENTIAL INTEROPERABILITY

FY 2020 Education Stabilization Fund – Reimagine
Workforce Preparation (ESF-RWP) Grants Program

July 16, 2020 | Sharon Leu



OFFICE OF
Educational Technology

The webinar will begin at 2:00 pm ET

Information on joining the teleconference can be found under the phone icon in the upper middle of the screen. Use your computer audio or have Adobe Dial-out to you directly to participate by voice:

- Enter a phone number for Adobe to call you then click **Join**
- When you answer the phone, press ‘1’ when prompted



The screenshot shows a dialog box titled "Join Audio Conference". It asks "How would you like to join the meeting's audio conference?". There are two radio button options: "Dial-out [Receive a call from the meeting]" which is selected, and "Dial-in to the Audio Conference via Phone". Under the "Dial-out" option, there is a dropdown menu showing "+1 (USA)" and a text input field containing a redacted phone number. At the bottom right, there are two buttons: "Join" and "Listen Only".

To cut down on background noise, we have placed you on mute upon entry into the meeting

A copy of this presentation and a link to the recording will be available on the PTAC website at <https://studentprivacy.ed.gov/>

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Objectives

- ❑ ESF-RWP Program Requirement and Definitions
- ❑ Credential Interoperability
- ❑ Resources
- ❑ Questions and Answers

PROGRAM REQUIREMENTS

Education Stabilization Fund – Reimagine Workforce Preparation (ESF-RWP)
Grant Program

Application and Information

Federal Register Notice Inviting Applications (NIA):

<https://www.federalregister.gov/documents/2020/06/23/2020-13480/funding-opportunity-fy-2020-education-stabilization-fund-reimagine-workforce-preparation-grants>

ESF-RWP Application Package Instructions:

<https://apply07.grants.gov/apply/opportunities/instructions/PKG00262274-instructions.pdf>

Pre-applicant Webinar:

https://s3.amazonaws.com/PCRN/webinars/ESF-RWP_Pre-Application_Webinar_Slides_062920.pdf

Background

The Department of Education wishes to ensure that individuals, employers, educators and training providers have access to the most complete, current and beneficial information about providers, programs and credentials supported with these grant funds.

Absolute Priority 1

(a) Creating, developing, implementing, replicating, or taking to scale short-term educational programs and training courses or programs, and/or career pathways programs, including those focused on facilitating and strengthening entrepreneurship and small business ownership

(b) Funding the creation, development, implementation, replication, or scaling of industry sector-based education and training models and programs

Absolute Priority 1 (cont.)

Projects under Absolute Priority 1(a) and 1(b) may include apprenticeships and other work-based learning programs and **must provide individuals the opportunity to earn badges, certifications, micro-credentials, licenses, or other credentials** that employers affirmatively signal will contribute to qualifying a candidate for employment or promotion in an in-demand industry sector or occupation (as defined in this notice).

Program Requirement

Grantees must make information on all credentials (including badges, certificates, certifications, licenses, and degrees of all levels and types) and competencies (knowledge, skills and abilities) achieved as a result of funding under this program *publicly accessible through the use of linked open data formats that support full transparency and interoperability.*

Such information must include the industry sector for or by which the credential was developed, the entities involved in the development of the credential, the competencies or skills assessed in awarding the credential, the form of assessment used to verify an individual's eligibility to be awarded the credential, and the body engaged in overseeing the awarding of such credentials.

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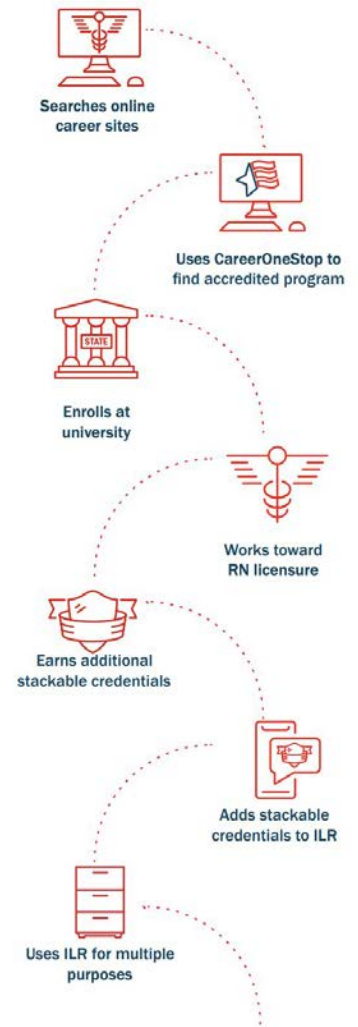
CREDENTIAL INTEROPERABILITY

Transparency and Interoperability of Credentials and Competencies

Lifelong Learning and Employment



Image by mohamed Hassan from Pixabay














Lifelong Learning and Employment



Image by mohamed Hassan from Pixabay



Lifelong Data Silos

	 HIGH SCHOOL	 FIRST JOB: RETAIL	 STATE COLLEGE	 SECOND JOB: NURSES ASSISTANT	 UNEMPLOYED: WORKFORCE	 BOOTCAMP	 THIRD JOB: MANAGER
DATA COLLECTED 	Grades, Attendance, Assessments, Diploma	Employment & Wage Record, Resume	Student Transcript	Employment & Wage Record Skills & Competencies	State UI Case Management System	Student Record	Employment & Wage Record Skills & Competencies
WHERE IS IT STORED 	Student Information System (SIS)	HRIS System Payroll System Online Profile	Student Information System (SIS)	HRIS System Payroll System Online Profile	State UI Database & Workforce Case Management System	SIS System Online Profile	HRIS System Payroll System Online Profile
WHO HAS CONTROL 	School District	Employer	Institution of Higher Education	Employer	State Agency & Local Workforce Agency	Training Program	Employer
WHO HAS ACCESS 	Parents, Foundations, Programs, Researchers	Future Employers Creditors	Student, Foundations, Programs, Researchers	Employee, Future Employers Creditors	State Programs, Training Programs, Researchers	(Parents) State Agencies, Foundations, Researchers	Employee, Future Employers Creditors

Credential Ecosystem

738,438 Unique Credentials Offered

- 370,020 by postsecondary institutions
- 7,132 by MOOC providers
- 315,067 by non-academic organizations
- 46,209 by secondary schools

Source:

Counting US Postsecondary and Secondary Credentials

https://credentialengine.org/wp-content/uploads/2019/09/Counting-US-Postsecondary-and-Secondary-Credentials_190925_FINAL.pdf

Society of Human Resource Management's 2016 Human Capital Benchmarking Survey

<https://www.shrm.org/about-shrm/press-room/press-releases/Pages/Human-Capital-Benchmarking-Report.aspx>

AVERAGE TIME & COST PER HIRE



**42
days**



\$4,129

INTEROPERABLE LEARNING RECORDS



EMPLOYERS

Consume to hire, reskill, or upskill employees

Issue credentials to employees

Use to verify credentials and skills

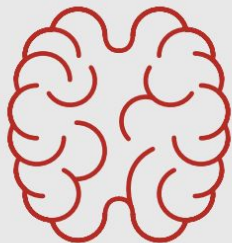
Occupation, job, and skill descriptions

Upskill and Learn More

Enroll and Learn

Share Achievements

LEARNERS



Collect Digital Evidence of Learning

Match Achievements to Job Skills

Search and Compare Credentials to Job Reqs

Get a Job

Achieve Learning Outcomes



EDUCATION & TRAINING PROVIDERS

Consume to enroll students

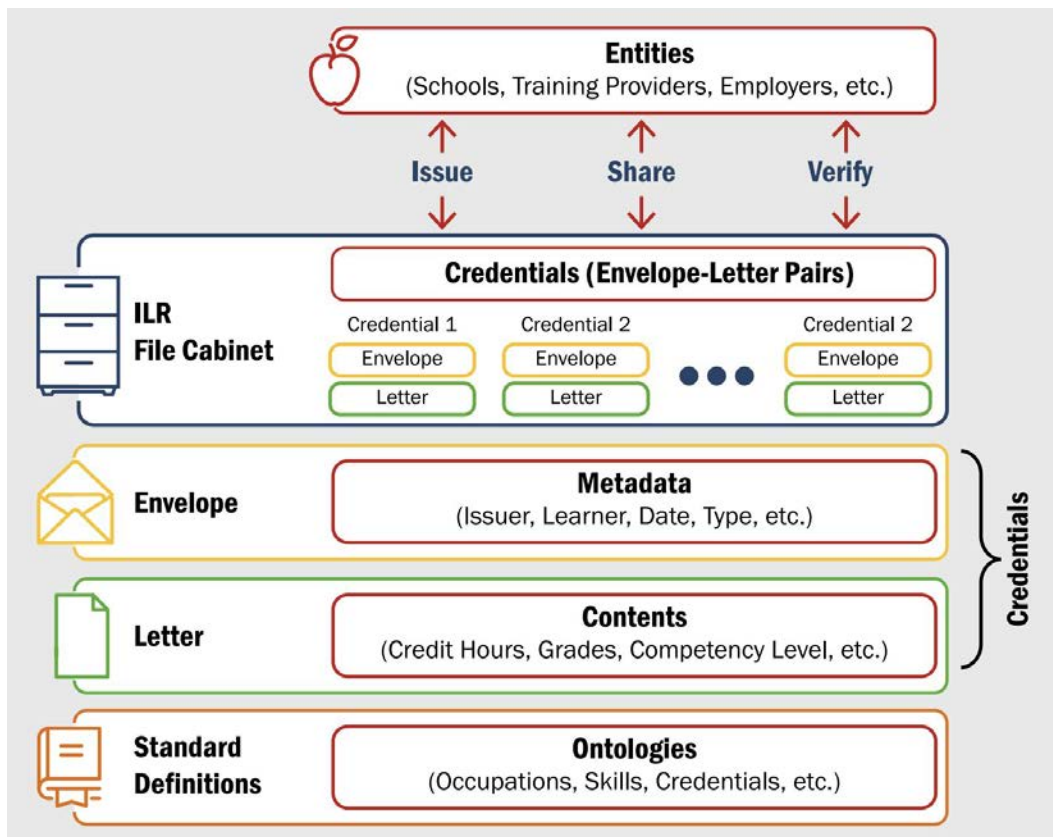
Issue credentials to learners

Use to verify credentials and skills

Credential and skill descriptions



What makes a credential interoperable?



Program Requirement

Grantees must make information on all credentials (including badges, certificates, certifications, licenses, and degrees of all levels and types) and competencies (knowledge, skills and abilities) achieved as a result of funding under this program publicly accessible through the use of linked open data formats that support full transparency and interoperability.

Such information must include the industry sector for or by which the credential was developed, the entities involved in the development of the credential, the competencies or skills assessed in awarding the credential, the form of assessment used to verify an individual's eligibility to be awarded the credential, and the body engaged in overseeing the awarding of such credentials.

Program Requirement

The Department requires that information about all credentials (including but not limited to badges, certificates, certifications, licenses, and degrees of all levels and types) and competencies (knowledge, skills and abilities) developed or delivered through the use of these Federal funds be *made publicly accessible through the use of linked open data formats that support full transparency and interoperability, such as through the use of credential transparency description language specifications*.

Concepts

- ❑ Publicly Accessible
- ❑ Linked Open Data Format
- ❑ Transparent
- ❑ Interoperable
- ❑ Credential Transparency Description Language (CTDL)

Publicly Accessible

Accessible: Open data are made available in convenient, modifiable, and open formats that can be retrieved, downloaded, indexed, and searched. Formats should be machine-readable (i.e., data are reasonably structured to allow automated processing). Open data structures do not discriminate against any person or group of persons and should be made available to the widest range of users for the widest range of purposes, often by providing the data in multiple formats for consumption. To the extent permitted by law, these formats should be non-proprietary, publicly available, and no restrictions should be placed upon their use.”

Reference: <https://policy.cio.gov/open-data/>

Linked Open Data Format

Structured data is machine-readable and used by search engines to understand the content of web pages.

Linked Data is a type of structured data that links between systems via the Web. When data is both structured and linked, it becomes a powerful tool that search engines and other systems can leverage.

Linked Data is at the foundation of the Semantic Web, which is all about: (a) making meaningful links between data points understandable to humans and machines alike; and (b) providing the means for inferring new data from existing data.

Reference: <https://policy.cio.gov/open-data/>

Linked Open Data Format

Open Data is data that is both (1) Technically open: available in a machine-readable standard format, which means it can be retrieved and meaningfully processed by a computer application; and (2) Legally open: explicitly licensed in a way that permits commercial and non-commercial use and re-use without restrictions.

License Examples:

- Open Data Commons Open Database License (ODbL)
- Open Data Commons Attribution License
- Open Data Commons Public Domain Dedication and License (PDDL)

Linked Open Data Format

Data Format Examples:

- JSON-LD (<https://www.w3.org/TR/json-ld11/>)
- Microdata (<https://www.w3.org/TR/microdata/>)
- RDFa (<https://www.w3.org/TR/rdfa-primer/>)

Resource:

<https://developers.google.com/search/docs/guides/intro-structured-data>

Transparent

Clearly defined, enables comparison, and is based on shared open standards, common language/descriptions, and skills ontologies/frameworks. Provides contextual information for determining relevance and skills mastered.

Resource:

https://www.commerce.gov/sites/default/files/2019-09/ILR_White_Paper_FINAL_EB_OOK.pdf

Interoperable

Uses open standards and common ontologies/frameworks to enable data to be machine readable, exchangeable, and actionable across technology systems and, when appropriate, on the Web. Supports combinations of data from multiple sources. Enables human interoperability and can be understood by people in different occupations and industries from diverse backgrounds.

Resource:

https://www.commerce.gov/sites/default/files/2019-09/ILR_White_Paper_FINAL_EB_OOK.pdf

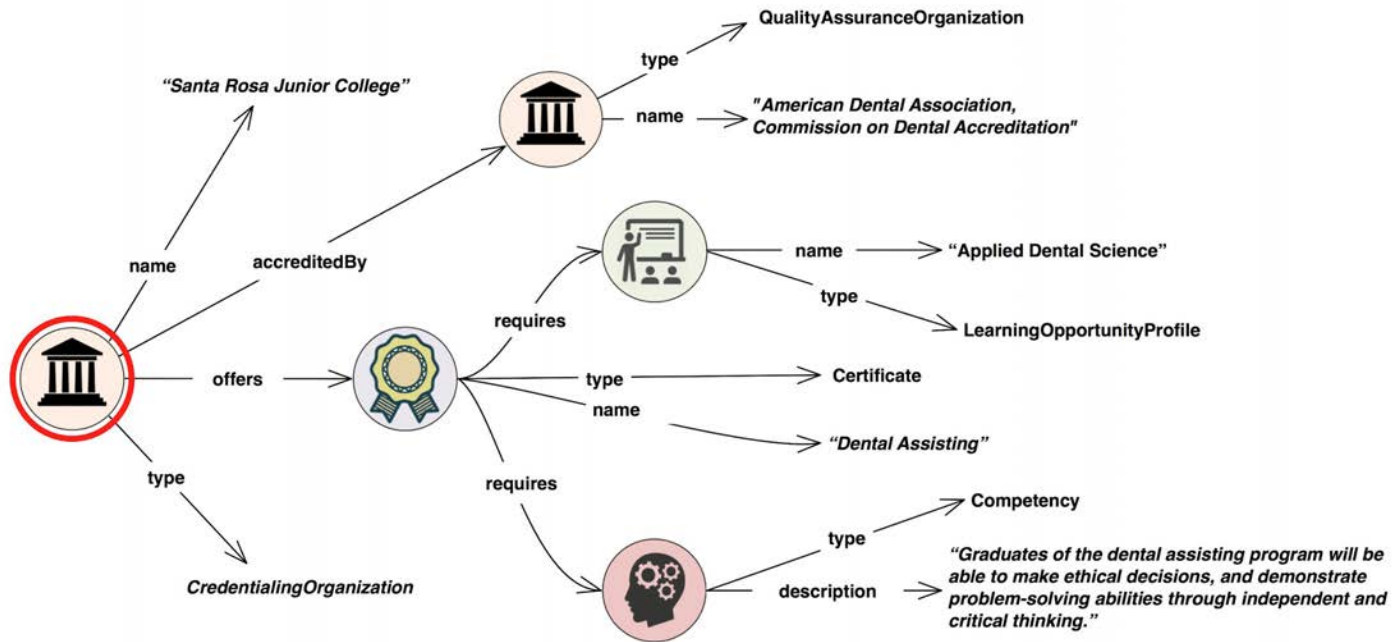
Credential Transparency Description Language CTDL

The Credential Engine's Credential Transparency Description Language (CTDL) is a set of terms and a logical grammar for using them, that is, a "schema" used to describe information regarding Credentials, Competency Frameworks, and Quality Assurance.

The CTDL is structured using RDF principles, allowing diverse systems to communicate about Credentials even if those systems use different schemas internally.

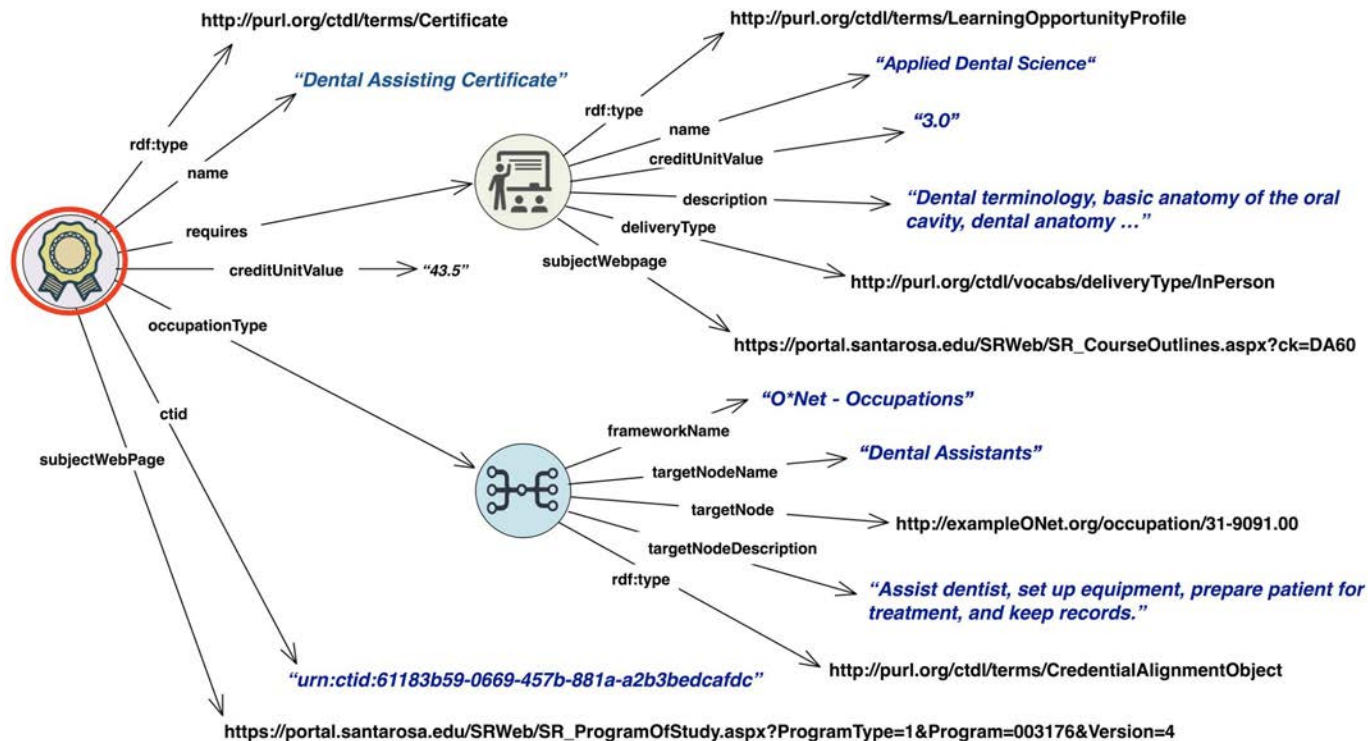
CTDL Linked Open Data Example

Santa Rosa College offers a Certificate in Dental Assisting that requires completion of their Applied Dental Science program and requires specific competencies and is accredited by the American Dental Association.



CTDL Linked Open Data Example

*Santa Rosa College offers a **Certificate in Dental Assisting** that requires completion of their Applied Dental Science program and requires specific competencies and is accredited by the American Dental Association.*



Required Data Elements

- ❑ Industry Sector
- ❑ Entities Developing Credentials
- ❑ Competencies/Skills Assessed
- ❑ Assessment
- ❑ Body Overseeing Award of Credential

Example - CNAA from Credentialfinder.org

Certified Medical Administrative Assistant (CMAA)

National Healthcareer Association (NHA)
Certification

Compare

Basic Info

Connect to this Credential

About this Credential

As a Certified Medical Administrative Assistant (also called a Medical Office Secretary or Medical Office Assistant), you'll keep healthcare offices running efficiently and effectively. This is a highly-rewarding profession - and not only monetarily. Medical assistants are often the first to greet and help patients, and can help set the stage for a patient's experience.

As a Certified Medical Administrative Assistant, you may perform some or all of the following tasks:
Review and answer practice correspondence
Operate computer systems to accomplish office tasks
Answer calls, schedule appointments, greet patients and maintain files
Update and maintain patient and other practice-specific information
Coordinate operation reports such as time and attendance

Medical assisting is one of the fastest-growing careers in America. By becoming a Certified Medical Administrative Assistant (CMAA), you'll have the recognized credentials healthcare employers are searching for now. Don't wait a moment longer to change your life - start your path to becoming a Medical Assistant!

Estimated Time to Earn

Estimated: 2 years

Credential Status Type

Active

Credential Type

Certification

Assessment Delivery Type

Online Only

Audience Levels

Secondary School or Equivalent

Occupations

Medical Assistants (31-9092.00)


Industries

Health Care and Social Assistance (62)

Additional Information

In Language: English

Location Info



11161 Overbrook Road, Leawood, Kansas 66211, United States

Owned By

National Healthcareer Association (NHA)

National Healthcareer Association (NHA) partners with employers, educators and organizations to empower people to access a better future in healthcare. NHA provides you with innovative, accessible learning resources, national certification exams and professional development with analytics, so you ca...

Owned By Offered By Revoked By Renewed By

More Info

Competencies

203 Assesses 203 Competencies

Requirements and Recommendations

1 Requires 1 Assessment

1 Other Recommendations

Estimated Costs

1 Assessment Cost

NHA Certified Medical Administrative Assistant (CMAA) JSON-LD

Credential JSON-LD

Last Downloaded: Apr 23, 2020 11:30 AM

Example - CNAA from Credentialfinder.org

1 Requires 1 Assessment ✕

Assessments

Certified Medical Administrative Assistant (CMAA)

National Healthcareer Association (NHA)
About the Test: Testing will take place at your school or at a PSI Testing Center near you. You must present valid identification. Test must be completed in one continuous session. CMAA Certification Exam Details: 110 questions, 20 pretest items Exam time: 2 hours, 10 minutes

Conditions

Description:
Certification Eligibility
To be eligible to sit for an NHA exam (other than the ExCPT Pharmacy Technician) and receive certification, each candidate must satisfy Steps 1-3 below:
Step 1: Possess a high school diploma or the equivalent, such as a General Education Development (GED) test or other equivalency test recognized by the candidate's state of residency, or diploma and official transcript reflecting equivalent education as evaluated by the American Association of Collegiate Registrars and Admissions Officers for secondary education (if documents are not in English, a translation into English from a translation service approved in the United States for legal or governmental documents must be available upon request).
Step 2: Successfully complete one of the following pathways:
PATHWAY 1: TRAINING PROGRAM: Within the past five (5) years*:
a. Successfully complete, a training program in the health field covered by the NHA certification exam offered by an accredited or state-recognized institution or provider; or
b. Successfully complete, an apprenticeship program that is registered pursuant to the guidelines of the U.S. Department of Labor; or c. Successfully complete, formal medical services training offered by any branch of the U.S. Military Training; or d. (Pre-Externship Route) Successfully complete the didactic (coursework) portion of the program as verified by the institution and prior to the completion of any required externship, provided: •The institution has completed the agreement with NHA to allow students to take the exam after completion of the coursework and prior to completion of the institution's required externship. •Candidates who take the exam prior to their externship will be informed whether he/she passed or failed the exam; however, for all passed exams, no certificate number will be assigned, and the certificate will not be available to the candidate, an employer or any regulatory or state agency until the externship completion has been received by NHA. •The candidate will have ninety (90) days from the exam date to (i) complete the externship, (ii) ensure that his/her institution has all of the necessary paperwork needed for completion of the institution's program and (iii) have the institution notify NHA. •Once the candidate completes his/her externship, the institution will notify NHA that the candidate has successfully completed the entire training program. Provided the candidate passed the exam, NHA will then assign a certificate number and the candidate will receive an official certificate and wallet card within approximately 7 to 10 business days from the date NHA releases the certificate. The Effective Date of the Certificate will be the date NHA assigns the certificate number. At that time, an employer or regulatory agency will be able to confirm that the candidate is certified with NHA. •If the candidate does not timely complete his/her externship or the institution fails to notify NHA that the candidate has completed his/her externship within 90 days from the date he/she passed the certification exam, NHA will void the exam score and the candidate will be required to retake the exam in order to be certified. e. Candidates whose date of completion from their training program is five years or more prior to the date of registration are ineligible to meet the requirements of Pathway 1. Accordingly, such candidates must instead have the relevant work experience described under Pathway 2 below. PATHWAY 2: WORK EXPERIENCE - Have at least one (1) year of supervised work experience in the health field covered by the NHA certification exam within the last three (3) years.
Step 3: If certifying as a Phlebotomy Technician or an EKG Technician, such Candidates must also complete the Additional Program-specific Eligibility Requirements, described below, prior to sitting for the exam.

Additional Program-specific Eligibility Requirements
•Phlebotomy Technician Certification (CPT): Each candidate for the CPT certification must be able to provide evidence that he/she has successfully performed a minimum of thirty (30) venipunctures and ten (10) capillary sticks on live individuals.
•EKG Technician Certification (CET): Each candidate for the CET certification must be able to provide evidence that he/she has successfully performed a minimum of ten (10) EKGs on live individuals.

Audience Level
Secondary School or Equivalent

Example - CNAA from Credentialfinder.org

203 **Assesses 203 Competencies** ✕

- ✓ Check on callers with extended hold times.
- ✓ D. Create correspondences
 - ✓ Knowledge of templates
 - ✓ Knowledge of word processing
 - ✓ Knowledge of different types of letters
 - ✓ Knowledge of different types of correspondences
 - ✓ Create letters.
 - ✓ Use proper greetings and salutations.
 - ✓ Apply proper postage.
 - ✓ Obtain required signatures (e.g., who should sign the correspondence?).
- ✓ E. Demonstrate basic computer skills
 - ✓ Knowledge of e-mail system (e.g., Microsoft Outlook)
 - ✓ Knowledge of word processing (e.g., Microsoft Word)
 - ✓ Knowledge of spreadsheets (e.g., Microsoft Excel)
 - ✓ Knowledge of internet (e.g., social media, web searching)
 - ✓ Use of hardware (e.g., copiers, fax machines, scanners)
 - ✓ Basic HIPAA regulations for the use of the computer
 - ✓ Skills at computer software
- ✓ 7. Basic Medical Terminology
 - ✓ A. Use medical terminology to communicate with patients and physicians
 - ✓ Basic knowledge of pronunciation
 - ✓ Basic knowledge of spelling
 - ✓ Basic knowledge of the meaning of terms
 - ✓ B. Recognize abbreviations and acronyms used to complete administrative duties
 - ✓ Identify the meaning of abbreviations and acronyms (e.g., HX, Pt, H&P, Dx, SOAP, HIPAA, CC, Rx, PHI, CDC, AMA, HMO, PPO).
 - ✓ Use of abbreviations and acronyms to complete basic administrative duties
 - ✓ C. Use word parts (i.e., prefixes, roots, suffixes) to define medical terminology
 - ✓ Basic knowledge of prefixes (e.g., a-, an-, pre-, post-, hyper-, hypo-, peri-, endo-, exo-)
 - ✓ Basic knowledge of roots (e.g., cardi/o, vascul/o, gastr/o, nephri/o, hepat/o)
 - ✓ Basic knowledge of suffixes (e.g., -logy, -it is, -osis, -pathy, -ist, -graph)

Example - CNAA from Credentialfinder.org

1 NHA Certified Medical Administrative Assistant (CMAA) ✕

Registry Information

CTID: ce-bc023fae-a69c-40c2-a5b3-c97a6ce903ae

Envelope: 1f2be58a-9b81-42af-b7db-832a8e4ff71

Resource: [View in Registry](#)

Raw Metadata

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```



NHA Certified
Medical Administrative
Assistant (CMAA)



Credential

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CTDL Resources

Credential Engine is a non-profit organization that develops and maintains the Credential Transparency Description Language (CTDL) and scales and maintains a web-based Credential Registry that collects, connects, and maintains up-to-date credentialing data

Resources:

- <https://credentialengine.org>
- https://credentialengine.org/wp-content/uploads/2018/11/Linked_Data_Fact_Sheet.pdf
- <https://credreg.net/quickstart/ilwrguide>



Examples

Formats that support full transparency and interoperability of badges, certifications, micro-credentials, licenses, and others:

- ❑ W3C Verifiable Credentials Data Model <https://www.w3.org/TR/vc-data-model>
- ❑ Open Badge 2.0 Specification
<https://www.imsglobal.org/sites/default/files/Badges/OBv2p0Final/index.html>
- ❑ Comprehensive Learner Record Specification
<https://www.imsglobal.org/activity/comprehensive-learner-record>

Examples

Data on industry sector, credential issuers/verifiers, competencies/skills, assessment

- ❑ US Department of Labor, Standard Occupational Classification <https://www.bls.gov/soc/home.htm>
- ❑ US Department of Labor, O*NET <https://www.onetonline.org/>
- ❑ US Department of Labor, Competency Model Clearinghouse, <https://www.careeronestop.org/CompetencyModel/>

Examples

Data on industry sector, credential issuers/verifiers, competencies/skills, assessment (cont'd)

- ❑ EMSI Open Skills Library, <https://skills.emsidata.com/>
- ❑ HR Open Standards, <https://hropenstandards.org/>
- ❑ National Initiative for Cybersecurity Education (NICE), Cybersecurity Workforce Framework,
<https://www.nist.gov/itl/applied-cybersecurity/nice/nice-cybersecurity-workforce-framework-resource-center>
- ❑ Competencies and Academic Exchange (CASE) Framework,
<https://casenetwork.imslobal.org/cfdoc/>

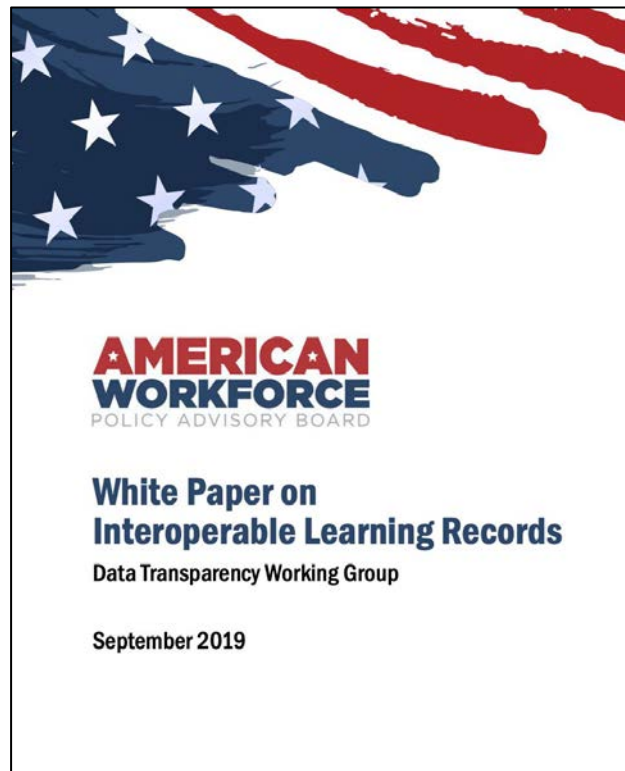
RESOURCES

Interoperability and the “Learning and Employment Record”

White Paper on Interoperable Learning Records

AWPAB Data Transparency Working Group

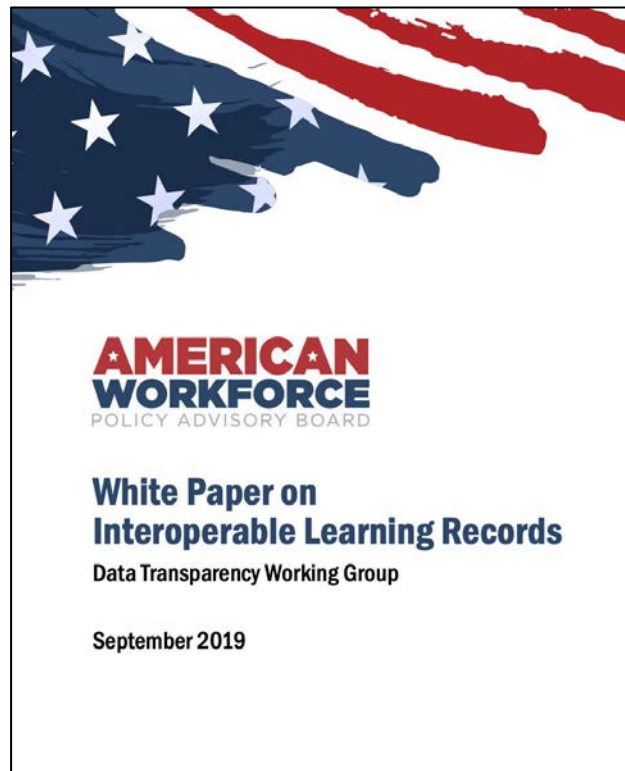
https://www.commerce.gov/sites/default/files/2019-09/ILR_White_Paper_FINAL_EBOOK.pdf



Interoperable Learning Records Landscape Inventory

AWPAB Data Transparency Working Group

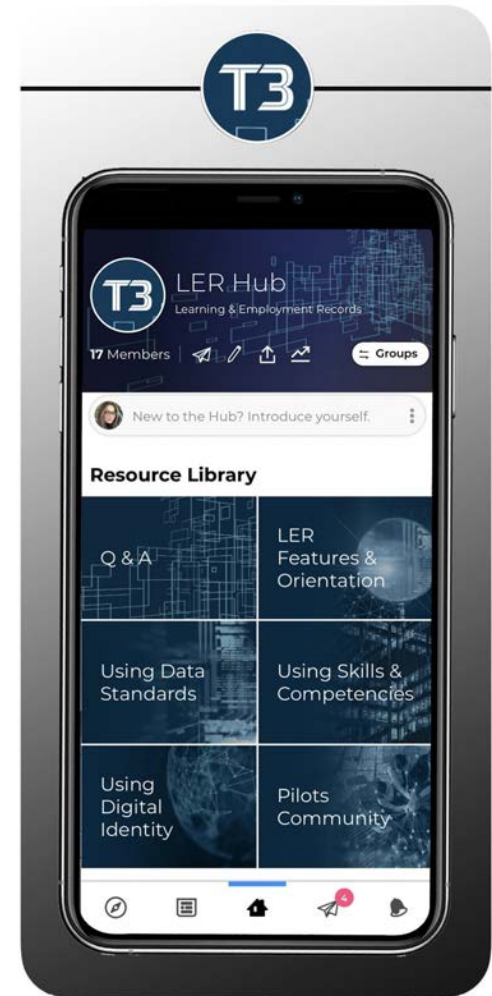
- ❑ https://www.commerce.gov/sites/default/files/2019-12/AWPAB_ILR_Inventory_Nov2019.pdf



T3 Innovation Network

Learning and Employment Record (LER) Hub

<https://lerhub.org/>



QUESTIONS AND ANSWERS

ESF-RWP@ed.gov

 @OfficeofEdTech

 medium.com/@OfficeofEdTech

Does the requirement to use linked, open data formats prevent me from partnering with proprietary credential providers?

When should we start thinking about this program requirement?
Can we focus on course development first, and then worry about meeting this requirement after we have released the training program?

What if we are developing credentials in an industry/occupation where there isn't a developed framework (ie: NICE)?

What if we are developing credentials that contain proprietary information, such as about the assessment or the competencies?

END