

The IBM Cybersecurity LER Pilot

*The learner's journey from
High School to a best fit
job in cybersecurity*

September 2020



The pilot shows a day in the life of a student, transitioning from school to career, using their verified academic and experiential credentials



Learning Credential Network



Myhub Wallet



Academic Compass Application



Skills-based credentials guide the learner to the right class, and help employers find the right candidate

Credentials guide the career path

SKILLS OVERLAP

Select the bar to expand skills information and view potential courses for roles where you need skills you don't have.

Unmatched 420 →
Matched 15 →
Missing 17 →

RECOMMENDED LEARNING RESOURCE

Digital Forensics in Cybersecurity
Western Governors University
C840 / CCID24 [Learn More](#)

THIS COURSE WILL GET YOU THE FOLLOWING 3 MISSING SKILLS

- Information Systems/Network Security** →
Analyze > All-Source Analysis
- Information Technology Assessment** →
Analyze > All-Source Analysis

The interface also features a central diagram with a woman's profile and three job roles: All-Source Analyst, Technical Support Specialist, and Program Manager, connected by lines.

Employers search for job candidates using credentials

Search Criteria

- Industry Expertise**: NICE Cybersecurity Framework
- Competencies**: Collection Operations (CLO), Threat Analysis (TWA), Executive Cyber Leadership (EXL), Cyber Operations (OPS)
- Skills**: Collection Operations, Threat Analysis
- Schools**: WGU, Central NM Community College
- Degree**: Bachelors

[Reset](#) [Edit Search Criteria](#)

Candidate 1 96%
[View Profile](#)

Candidate 2 68%
[View Profile](#)



The learner uses their wallet to control and share their verified credentials

Verified credentials are on the blockchain

The screenshot shows the 'Learning Credential Network' interface. At the top left is the logo. The main area is titled 'Upload New Credential' and contains a dropdown menu for 'Credential Type / Source', a text input for 'Holder DID', and a dashed box for file upload with the text 'Drag and drop files here or Browse'. Below this is a note: 'The file size cannot exceed 1MB. Please upload one file at a time'. There are 'Reset' and 'Upload Credential' buttons. Below the upload section is a table titled 'Credentials in the LCN'.

Credential Name	Credential Type	Credential ID	Holder DID	Confer Date	Issue Date	Expiry Date	Status
Bachelor of Science, Cybersecurity and Information Assurance part II	DegreeCredential	ac26abb9-57e3-48bf-892c-25fcf2c1fb30	did:icn:cp:fd9ab44b-e7f2-4dda-90ec-b86b9dd e36ed	Jun 29, 2020	Sep 15, 2020		Issued
Bachelor of Science, Cybersecurity and Information Assurance part I	DegreeCredential	573fe64a-e123-4110-bb06-7f9d941c6a79	did:icn:cp:fd9ab44b-e7f2-4dda-90ec-b86b9dd e36ed	Jun 29, 2020	Sep 15, 2020		Issued
COLLEGE ALGEBRA	CourseCredential	1363a7b2-c2e4-43dd-a9b2-e760a3e8d2c2	did:icn:cp:328aa62e-a642-46df-8aee-cf8a1c1a4a05	Apr 27, 2019	Sep 15, 2020		Issued

Learner decides which credentials to share

Because you haven't yet made any of your achievement discoverable by employers, you may be missing out on job opportunities. Select the achievements now that you want to make discoverable by employers.

Name ↑	Issuer ▼	Award Date ↑	Discoverable? ↑
Applied Probability and Statistics	WGU	08/07/2020	<input checked="" type="checkbox"/> Yes
BUS PROFESSIONALISM	Central NM Community College	12/11/2014	<input checked="" type="checkbox"/> Yes
Business of IT - Applications	WGU	08/07/2020	<input type="checkbox"/> No <input checked="" type="checkbox"/>



The cyber pilot successfully demonstrated a replicable model for a national LER infrastructure

Cyberskills pilot goals and objectives	Outcomes
We show a learner's path from high school to a cybersecurity career using validated skills-based credentials	✓
Using an industry aligned career pathway, learners determine what skills they have and need, and where to get those needed skills	✓
Learners own their credentials and decide whom they share them with, assuring data privacy is respected	✓
Employers search for and select qualified candidates using their trusted and validated credentials	✓
Interoperability with other credential and career pathway systems is demonstrated	✓



Thank you

Alex.Kaplan@us.ibm.com

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