Aligning Industry Competencies and Education to Streamline Career Pathways

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The Comprehensive Learner Record (CLR) and the Wellspring Project

Dan Blickensderfer, Technical Program Manager, IMS Global



IMS: Over 20 Years of Learning Impact

We are K-12, higher education, corporate learning, government, and edtech solution providers.

IMS members are united by a passion to continuously improve educational experiences so that every learner can make a difference in the world.

Together, we are shaping the future of digital teaching and learning.

Digital Credentials Ecosystem

Support competency-based models and connect educational credentials with the full scope of learning achievements and experiences

Digital credentials are reshaping the delivery of education and professional learning by enabling lifelong learner-control of evidence-based knowledge, skills, and achievements to respond to today's education and job market needs.

- Badge Connect™
- Competencies and Academic Standards Exchange[®] (CASE[®])
- Comprehensive Learner Record (CLR)
- Open Badges
- Wellspring Project

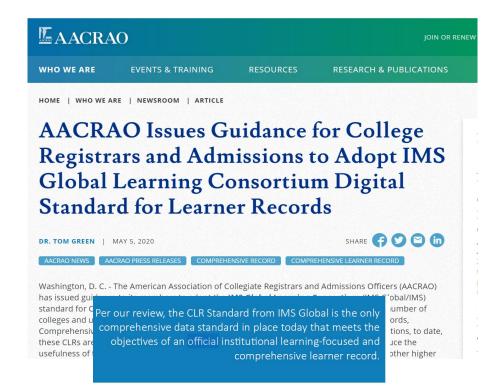
Comprehensive Learner Record



A Longitudinal Record of Learning, Achievements and Milestones



Officially Recognized and Adopted by AACRAO



Link to AACRAO
CLR Resources

Read the full report

Supporting A Wide Array of Achievement Types



Assessments

Certifications

Co-Curricular Achievements

Competencies and Skills

Courses

Degrees

Internship/Experiential Learning

Licenses

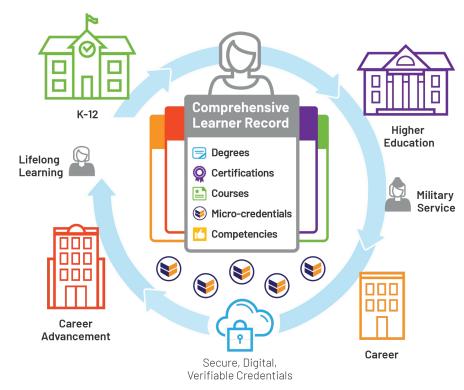
Microcredentials as Open Badges

Workplace Achievements and Milestones

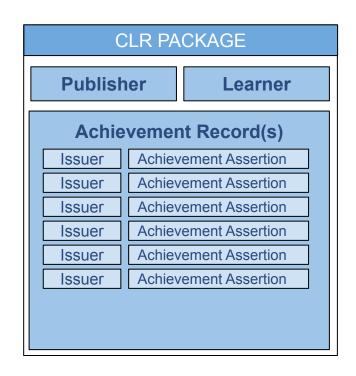
Extensible to meet domain-specific needs in education and workforce

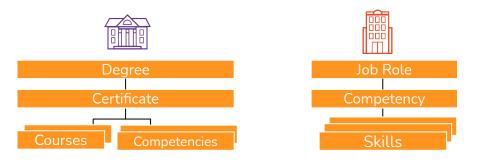


Digital Credentials Ecosystem



Standard Format for Learning and Employment Records





Including evaluation rubrics, authentic assessments and evidence of skills







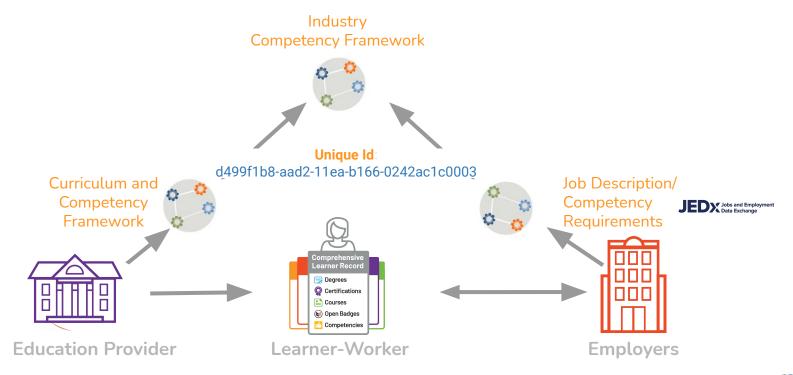






CLR + CASE Connect a Credentials Ecosystem

An open standard for publishing frameworks in a digital form for interconnection



Wellspring Project

Realizing the potential of digital credentials

Wellspring

The Wellspring project advances the education-to-employment digital ecosystem by improving the flow of data between candidates' competency-based learner records and employers' skills-based talent systems, better connecting learners with employers.

Wellspring Phase II Workstreams

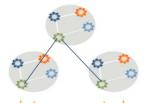
- Connected competency frameworks
- Primary employer research into digital credential readiness
- Pilot software prototypes that demonstrate skills-aligned digital credentials



Wellspring Initiative 3 Workstreams

Hands-on connected frameworks, primary employer research and pilot software





Interconnected Competency Frameworks (CASE) 16

Employer Partners

The Center for the Future of Higher Education and Talent Strategy



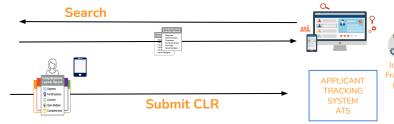
750 Employers Readiness Plans Cost-Benefit

Primary Employer Research

Functioning Demonstration Software available to IMS Members















Wellspring is building a demonstration ATS. @Learningimpact | imsglobal.org
The products listed are examples of persible learning Consortium. Inc. All rights reserved.
products to consume CLR

CAEL Work.





Postsecondary education



employers



Adult Learners



Workforce and Economic Development

CAEL works with organizations of all types to better support and serve the education to employment needs of adults.



Mission-Aligned Funders



CAEL Expertise - What we are known for

- ★ Anything involving Adult Learners!
- ★ Credit for Prior Learning (CPL / PLA)
- ★ Initiatives to Improve Services to Adult Learners/Students
- ★ Education to Career Pathways/Career Exploration
- ★ Convening and Consensus-Building
- ★ Sustainable Industry and Education Partnerships



CAEL Services & Solutions

- Staff Capacity Building
- Technical Assistance and Initiative Support
- Tools & Platforms
- Events & Membership

Industry Education Partnerships

- Energy Coalition (EPCE)
 - The Energy Providers Coalition for Education (EPCE) is an industry coalition that represents energy employers across the country working together to create, sponsor, and offer easily accessible online education and training pathways for the energy workforce.
- Communications Coalition (NACTEL)
 The National Alliance for Communications Technology and Learning (NACTEL) educates and trains the communications workforce through a partnership between Pace University and a consortium of telecom companies and unions

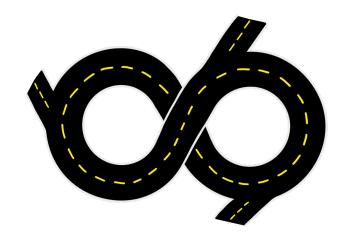


Career Pathway: Sustainable Industry Education Partnerships Drive Adult Learner Career Pathways

Employers - Investing in workforce solutions

Education Partners

Removes adult learner harriers



CAEL - Provides direction to a better adult focused ecosystem



About EPCE

EPCE Governance Committee and Industry Members

Council for Adult and Experiential Learning

Energy Industry Educating and Training the Workforce

EPCE Education Partners

Bismarck State College (BSC)

Excelsior College

Worcester Polytechnic Institute

Clemson University

CAEL's Work on the Wellspring Project.



Employer Perspective on Competencies

- ★ Recognizing the value of aligning competencies to education/training
- ★ Importance of industry employer representation (EPCE)
- ★ Increase employee engagement and retention
- ★ Roadmaps for employee career development
 - Pathways for transitioning workers affected by plant closures





Education Perspective on Competencies



Mapping Leadership Certificate

- ★ Bringing Education and Employers together
- ★ Identify Competencies from Job Description
- ★ Identify 21st Century Skills needed based on Job description
- ★ Identify Course Outcomes
- ★ Create T-profile with Identified skills
- ★ Align in framework
- ★ Validate framework



Employer and Education Partners



Deanna Myers
Senior Manager
Learning Development
Sargent & Lundy



Kimberly Otero
Director
Partnership Development
Excelsior College

Job Analysis Methodologies

Job Context:

What does the *employee* need to be able to do?

 Common Resources: Job Description, Performance Evaluation, Training Guide, Interview Guide

Course/Program Context:

What does the *student* need to be able to demonstrate?

Common Resources: Learning outcomes, Syllabus, Tests, Course description

Operations Supervisor Job Description

Operations Supervisor Job Description

Position Summary

Standard Operations Position. Supervise a high performing operations team while driving the safe, efficient and cost-effective use of resources according to policies and procedures. Assure safe, reliable, and compliant operations and ensure customer satisfaction. Ensure consistent and effective use of standard tools and processes. Support attainment of corporate and business unit goals and objectives, and process and performance metrics. Serve as a strong communicator of key strategic and operational changes.

Essential Responsibilities	
a) Safety: Provide visible safety leadership and drive real time safety accountability by engaging employees/crew through safety meeting facilitation, job briefs, audits, training, accident	20
investigation/event assessment, and job site observations. Work in close partnership with Safety Consultant.	
b) Business Optimization & Strategy: Evaluate team performance based on operational efficiency, reliability and quality metrics; monitor trends, and take corrective action where appropriate. Ensure and reinforce the importance of process adherence and data integrity. Identify continuous improvement opportunities and drive adoption of process changes through effective communication of expectations and objectives.	10
c) Operational Effectiveness: Responsible for crew productivity and quality of execution. Maintain a consistent presence in the work environment. Assist in removing barriers with pre-requisites, materials, stakeholder, and other issues. Align crew skills and availability to work activities through coordinators, planners, and schedulers, prioritizing customer satisfaction and reliability.	25



Mapping Course Outcomes

E	F	G
Project Management Grad Courses	Course Outcomes	Job Competencies
Required	,	
530 Project Management	1. Describe essential project management terms,	-Project Planning and excecution
Select 2		
Level III- Project Management		
BUS550 CONTINGENCY PLANNING	Propose a course of action that provides leaders/managers with the ability to identify risk areas which can lead to a major disruption of business processes 2. Develop action plans for appropriate alternative solutions to reduce or minimize risk. 3. Describe vulnerabilities and threats that organizations may encounter. 4. Assess testing, training of personnel, and	-Planning -Risk Management -Problem Solving Sample Job Description: Assure the project meets permit and contract requirements and protects the compar
BUS 523 Business Ethics for Managers	Illustrate the development of an individual ethical and moral perspective related to the professional and personal aspects of life. 2. Construct a relevant ethical argument for addressing complex organizational issues using ethics theory as a foundation 3. Illustrate the relevance of creating a culture founded in	-RFP development, awarding ande xecution -Talent Management -Planning -
BUS 518 Leading Teams	1. Differentiate among work groups and types of	-Team Development



Creating a T Profile

Initiative	Creative Problem Solving	Collaboration	Intercultural Fluency
	Conflict management	Coordination Social perspective Employee engagement Conflict management	
Resilience	Critical Thinking	Oral Communication	Empathy
	Monitoring operations performance	Active listening Speaking Adjust for tone (convey information effectively) Presenting/meeting facilitation	Conflict management
	(1) Not Important (2) Some	what Important (3) Very Important	

Framework Systems Operations Supervisor

Senior Management

- Safety leadership
- Meeting facilitation
- Evaluate team performance
- Operation Strategy and Execution
- Financial Planning/Budget
- Security Analysis
- Training
- Mentoring
- Documentation
- Talent Acquisition and Development
- Project Management

Mid Level

- Mentoring
- Project Management
- Training
- · Familiarity with regularity and safety requirements
- Lead flow analysis
- Power system analysis
- Distributed computing
- SCADA
- AC/DC



Employer Internal Process

- ★ Key staff involved in process
- ★ Obstacles and Opportunities
- ★ Benefit of project



Education Provider Internal Process

- ★ Key staff involved in process
- ★ Obstacles and Opportunities
- ★ Benefit of project



Recommendations for working with Employers

- ★ Bring the right people to the table
 - Interest in workforce solutions
 - Hiring Managers, HR, Training, Supervisors
- ★ Listen to employer workforce needs and how to improve outcomes
- ★ Consider both current and future workforce needs
- ★ Include employers in program/course development, review and process
- ★ It isn't a one time exercise, it is a continuous living process
- ★ Be flexible



Lessons Learned

Overall

- ★ Always keep the adult learner needs centric to the process
- ★ A common language for competencies and skills is needed
- ★ Support from institutional and employer executive leadership is essential for success

Employer

- ★ Bring Human Resources and Hiring Managers into the work
- ★ Improving job descriptions and postings to include skills focused practices is important

Higher Education

- ★ Bring faculty and marketing staff into the conversations
- ★ Education curricula must explicitly tie to job requirements to quickly respond to changing needs

