

Digital Credentials and Open Badges: Enabling an Opportunity Ecosystem

Learner-Centered Skills-Based

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Our Panel

Alexander Blanc, Project Leader, Edubadge Project, SURF alexander.blanc@surfnet.nl David Kinsella, Head of Sales and Business Development, Digitalme david.kinsella@cityandguilds.com Eric Rouselle, Partner and Chief Innovation Officer, Open Badge Factory, eric.rousselle@discendum.com Rodolfo Trippodo, Chief Executive Officer, Italian Quality Company (IQC) rodolfo.trippodo@itaqua.it Richard West, Associate Professor, Brigham Young University rickwest@byu.edu



Skills-Based Credentials Ecosystem





Guiding Principles

- Learners' control of their digital credentials
- Employers seeking job candidates based on verified skills in digital form
- Digital credentials encompassing formal, informal and employer-based education
- A vibrant opportunity marketplace rooted in verifiable digital credentials with skills as a currency



Open Badges



- Proven micro-credentials for recognizing and recording skills in machine readable form
- Portable and controllable by the learner
- Scalable with millions issued to date
- Digitally Verifiable via automated means: e.g. http and Blockchain
- Capable of linking to comprehensive learner records







Madison College Continuing Education







Clear description and enumeration of relevant skills.

High quality credentials are being published through Open Badges

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Medical Nutrition Therapy 1 Course

Part of the Dietary Manager Certification, this course reviews the medically prescribed diets needed for specific disorders/diseases. Diets for medical conditions such as diabetes mellitus & cardiovascular disease are examined. Nutritional assessment techniques are introduced to evaluate dietary changes needed to manage weight & disease processes.



This badge is issued by Madison College Continuing Education

Dietary Manager	Dietary Manager Certificate		Diets For Cardiovascular Disease			
Diets For Deibetes Mellitus		GI Disease State Diets		ts G	l Progression Diets	Medical Nutrition
Medical Nutrition Therapy		Medically Prescribed Diets		Diets	Modified Diet Menus	
Nutritional Assessr	nent Tech	niques	Weight Mar	nageme	nt	
WHAT IT TAKES TO EARN	THIS BADGE					
Master nutrition	on concep	ts				
Thorough und	erstandin	g of healt	h conditions ar	nd relate	d diet planning	

Plan modified diets

Address specialized nutrition needs of diabetics

ANFP Practice Standards: Menu Planning, Calories, and Portion Sizes

View Additional Information >

Plan GI progression diets







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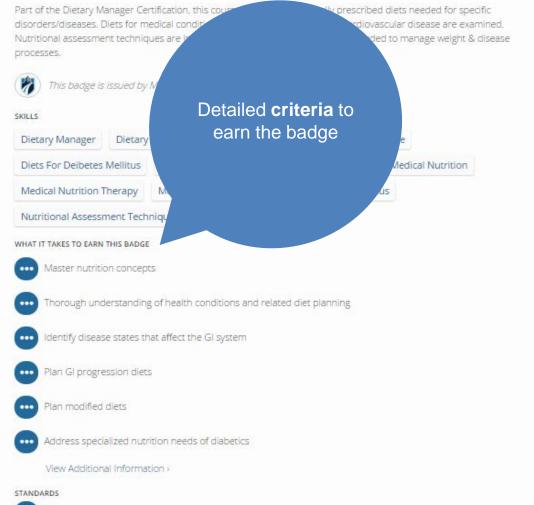






High quality credentials are being published through Open Badges

Medical Nutrition Therapy 1 Course



ANFP Practice Standards: Menu Planning, Calories, and Portion Sizes







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SKILLS



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Dietary Manager Dietary Manager Certificate Diets For Cardiovascular Disease

Diets For Deibetes Mellitus GI Disease State Diets GI Progression Diets Medical Nutrition

Medical Nutrition Therapy Medically Prescribed Diets Modified Diet Menus

Nutritional Assessment Techniques Weight Management

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Open Badges version 2.0 OBv2



Certification CERTIFIED



- Certified Open Badges ensure portability
 among platforms, controllable by the learner
 without mishandling or losing badge contents
- Defined platform types

Issuing – create

Display – verify and display

Host - import and export faithfully



Endorsement



As a subject matter **expert or authority**, I want to **endorse a badge** offered by an issuer

As a provider of a learning experience, I want to obtain badge endorsements from recognized subject matter experts for my badge(s)



Accessibility



As a badge issuer, I want to ensure that my badge image is accessible to screen readers and other assistive technology through the use of descriptive text



Multi-Lingual



As a badge provider, I want to manage a single version of a badge, but offer it in **multiple** languages to recipients

As a badge recipient, I want to offer viewers of my badge the ability to change the language that is used for viewing my badge



Versioning



As a badge provider, I want to update the criteria necessary to earn a badge and keep the previous versions of the badge unchanged



Enhanced Profiles A



As a badge recipient, I want to use my phone number or my authenticated UID as the primary way to identify myself (rather than email)

As a badge issuer, I want to award a badge to an organization (not an individual)



Blockchain Extension

- R&D with Blockchain show potentially promising methods to verify issuance when issuer-based verification* is not available
- Open Badge extension for BlockCerts is in progress within IMS' OB working group
- Will be made available open source for use by product suppliers and institutions to verify the authenticity of issued credentials

^{*}Open Badge display standards currently provide for real-time verification with the issuer



Aligning Skills in the Ecosystem

Competency and Academic Standards Exchange (CASE)



Skills Frameworks

Industries and employers often describe required skills in a framework

Management & Occupation-Specific

Tier 5 Industry Sector Technical Competencies

Consulting | Organizational | Academic Institutions manage curriculum, learning outcomes and competencies

Tier 4. Industry-Wide Technical Competencies

Framing | Scanning | Futuring | Visioning | Designing | Adapting



Creative Thinking | Networking | Planning & Organizing | Problem Solving & Decision Making | Technology Applications | Systems Thinking

Tier 2. Academic Competencies

Specialized Knowledge | Broad Knowledge | Intellectual Skills |
Applied Learning | Civic Learning

Tier 1. Personal Effectiveness

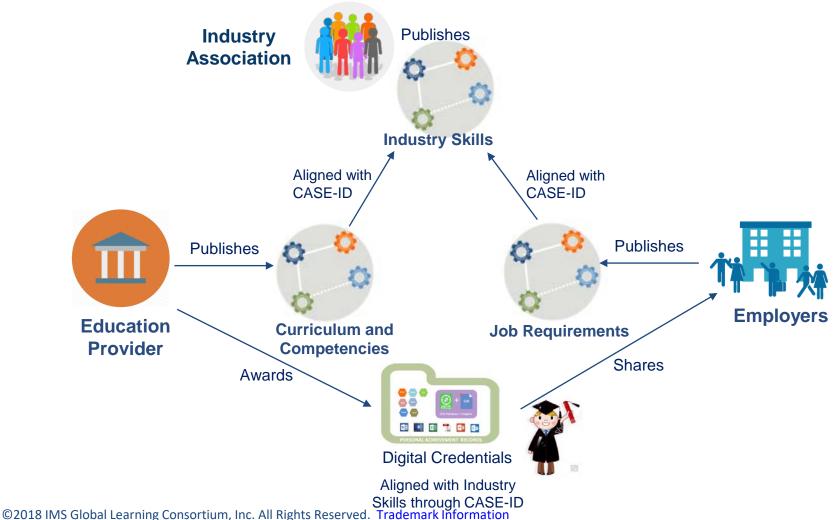
Interpersonal Skills | Integrity | Initiative | Adaptability & Flexibility | Willingness to Learn | Communicating



Credit: apf.org

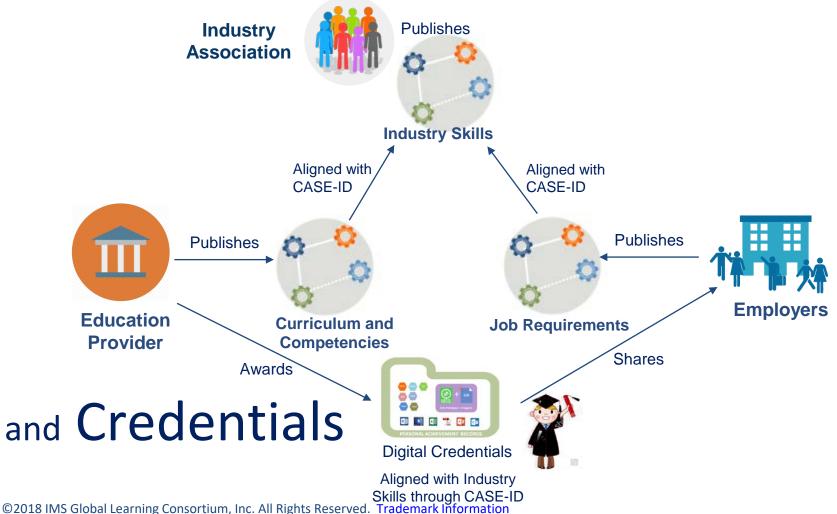


CASE Aligns Frameworks





CASE Aligns Frameworks

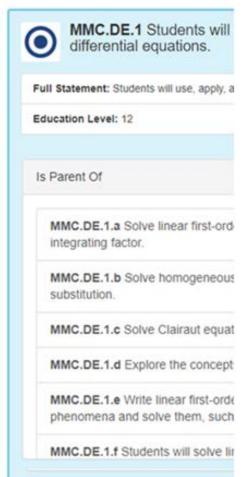




CASE-compliant Framework

Mathematics Georgia Standards of Excellence - 2017



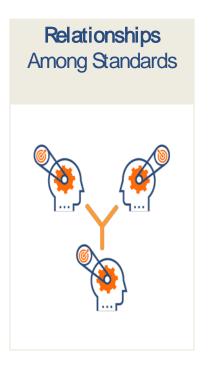




CASE®







a data *format* and *exchange* standard



Capturing All Learning Achievements



Comprehensive Learner Record

 A digital transcript from a single issue with the complete array of skills and achievements verified by the issuer



- 100% compatible with Open Badges. Open Badges can be contained in CLR
- Supports skills-mastery and traditional course records
- An open standard, built for the learner to share via privately shared links on the web



Comprehensive Learner Record



Live Examples in a CLR Viewer



Digital Credentials ROADMAP



Badge Connect



A learner easily moves badges to their favorite certified platform

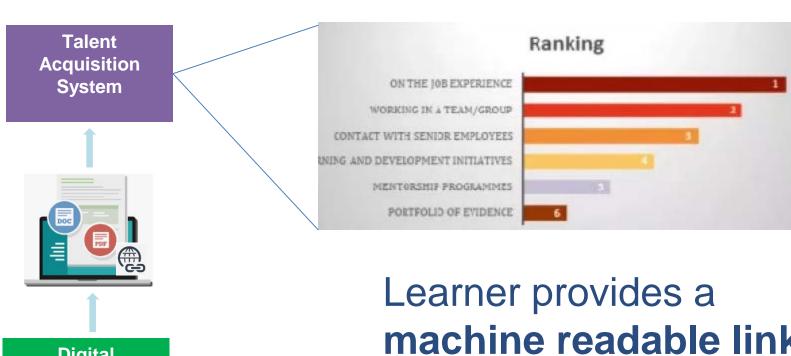
Open standard for web services

Enabling the ecosystem



Talent Stream

A Demonstration Project



Digital Credentials Collection



machine readable link to HR talent systems



A Skills-Based Digital Credentials Ecosystem















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