

DIGITAL BADGE & SKILLCOIN REWARDS MICRO-CREDENTIALING SYSTEM™



The Revolution of STEAM Education

Financial Literacy ▪ Blockchain Technology ▪ Entertainment ▪ Entrepreneurship

COMMUNITY ON DEMAND

COMMUNITY, SCIENCE & INNOVATION

STEAM EDUCATION & LIFE SKILLS DEVELOPMENT COURSE



Skills Digital Badge Collection STEAM Career Selection

Our fourth level of achievement focuses on a learner's basic understanding of the technical skills required to secure employment within one or more of the 17 high-demand STEAM industries. This is represented by our Skills Badge Digital Collection and awards micro-credentials when learners demonstrate possession of at least entry-level technical experience and proficiency within one or more of their chosen STEAM career clusters and pathways.





Instructions: Use this checklist to earn the following digital badges and document successful completion of activities. Submit proof of work using the links provided.






Digital Badge	Competency	Knowledge	Date Selected (S) or Demonstrated (D)
	Agriculture, Food & Natural Resources Careers in agribusiness, agritourism, environmental services, food processing, animal, plant, power & natural resource systems	✓ Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.	
		✓ Knowledge of techniques and equipment for planting, growing, and harvesting food products (both plant and animal) for consumption, including storage/handling techniques.	
	Architecture & Construction Careers in designing, planning, managing, building and maintaining the built environment	✓ Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.	
		✓ Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.	







"Do Better. Think BIGGER!"


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Digital Badge	Competency	Knowledge	Date Selected (S) or Demonstrated (D)
	Arts, A/V Technology & Communications Careers in visual and performing arts and design, journalism, and publishing multimedia content	✓ Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.	
		✓ Knowledge of the theory and techniques required to compose, produce, and perform works of music, dance, visual arts, drama, and sculpture.	
	Business Management & Administration Careers in planning, organizing, directing and evaluating functions essential to efficient and productive business operations	✓ Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.	
		✓ Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.	
		✓ Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, diversity and inclusion, labor relations and negotiation, reasonable accommodations for employees with disabilities, and personnel information systems.	
	Education & Training Careers in planning, managing and providing education, training services, and related learning support services	✓ Knowledge of principles and methods for curriculum and training design, teaching, and instruction for individuals and groups, and the measurement of training effects. This knowledge includes addressing the training needs of individuals with disabilities and groups of one or more individuals with disabilities,	
	Film, Digital Media & Entertainment Careers in designing, producing, exhibiting, performing, writing, and entertainment services	✓ Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	
		✓ Knowledge of media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media, including multiple methods of access to the information provided.	

Digital Badge	Competency	Knowledge	Date Selected (S) or Demonstrated (D)
	Finance Careers in financial and investment planning, banking, insurance, and business financial management	✓ Knowledge of economic and accounting principles and practices, the financial markets, banking, and the analysis and reporting of financial data.	
	Government & Public Policy Administration Careers in governance, national security, foreign service, planning, revenue and taxation, and regulations	✓ Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.	
	Green Energy & Sustainable Technologies Careers that create, maintain and manage technologies and renewable energy sources that include smart grid, wind, biomass, batteries, fuel cells, LEED certified and solar technologies	✓ Knowledge of alternative sources of renewable energies and how they impact the built environment.	
	Health Sciences Careers in biotechnology research and development, diagnostic services, health informatics, support services, and therapeutic services	✓ Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This knowledge includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures.	
		✓ Knowledge of human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.	
		✓ Knowledge of principles, methods, and procedures for diagnosis, treatment, and rehabilitation of physical and mental disabilities, and for career counseling and guidance.	
	Hospitality & Tourism Careers in the management, marketing & operations of restaurants and other lodging, attractions, travel & recreation events	✓ Knowledge of the information, skills, and abilities needed in five key hospitality sub-sectors: Lodging; Destination Marketing and Management, Tourism and Travel Arrangement; Recreation, Amusements, and Attractions; and Meetings, Events, and Exhibitions Management	

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	Human Services Careers in counseling and mental health services, family and community services, personal care, and consumer services	✓ Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.	
		✓ Knowledge of group behavior and dynamics, societal trends and influences, human migrations, ethnicity, cultures, and their history and origins	
	Information Technology Careers in the design, development, support and management of hardware, software, multimedia and systems integration services	✓ Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	
	Law & Public Safety Careers in planning, managing, and providing legal, public safety, protective services and homeland security	✓ Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	
	Manufacturing Careers in planning, managing and performing the processing of materials into intermediate or final products	✓ Knowledge of machines and tools, including their designs, uses, repair, and maintenance.	
		✓ Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.	
	Marketing Careers in advertising, promotions, marketing, sales, marketing research, merchandising, or public relations	✓ Knowledge of principles and methods for showing, promoting, and selling products or services. This includes marketing strategy and tactics, product demonstration, sales techniques, and sales control systems.	
	STEAM Investigative Process Being able to design an impact solution by researching a topic, developing, planning and coordinating a project plan, then drawing conclusions from your results	✓ Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.	
		✓ Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications	

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		✓ Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.	
		✓ Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.	
	Transportation, Distribution & Logistics Careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water	✓ Knowledge of principles and methods for moving people or goods by air, rail, sea, or road, including the relative costs and benefits.	