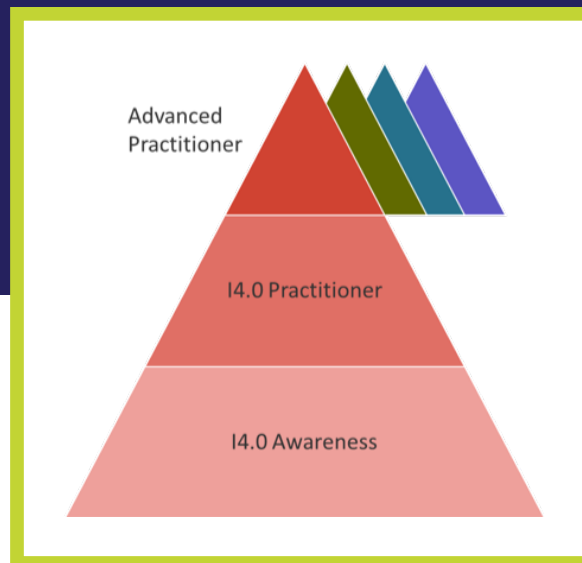


IOWA MANUFACTURING 4.0

The Iowa Innovation Council of Iowa commissioned a study of 4.0 technology adoption by manufacturers in Iowa. TEconomy conducted the 4.0 study and determined Iowa could do better. Governor Reynolds allocated \$30 million for 4.0 adoption stating: "We are committed to providing the necessary support to our advanced manufacturing industry, and other impacted industries, to overcome this primary obstacle and turn this short-term trajectory into long-term, broad-based prosperity."

Manufacturing is the state's largest industry generating more than \$12 billion worth of exported goods and accounts for nearly 18 percent of the state's GDP. Manufacturing 4.0 provides a road map to help Iowa manufacturers remain globally competitive through a fourth industrial revolution that emphasizes automation and smart technology.

Visit iowamfg.com for more information.



Partnering to develop and deploy 3-tier model for training of existing workforce

Target audience:

Manufacturing engineers, first line supervisors, quality control/assurance, maintenance technicians, and others.

Industry 4.0 Awareness Training for manufacturers:

Pilots completing in March.

Industry 4.0 Practitioner training under development.

Significant engagement of partners and industry throughout development and deployment.

Long-term goals:

Develop curriculum model that can complement traditional credit opportunities.

Demand for Industry 4.0 technologies is significant

MANUFACTURING 4.0 ENGAGEMENT

Over 180 manufacturers signed up for Iowa State University CIRAS Industry 4.0 Assessments in a 4-month period as part of the Iowa Economic Development Authority (IEDA) Manufacturing 4.0 Technology Investment Grant Program.

87% of respondents to a recent survey indicated that they are in the process of implementing at least one Industry 4.0 technology.

337 community college employees attended Education/Awareness activities.

1,782 economic developers and businesses attended Industry 4.0 speaking engagements.

104 Businesses (158 people) attended business roundtables to provide data on Industry 4.0 training needs.

294 employees received Industry 4.0 business training utilizing WTED, 260F and/or 260E training dollars.



Nearly one-quarter of current work hours will be automated by 2030.



Digitalization is expected to increase factory productivity by 25%.

East Penn Manufacturing seeks to be a global leader in providing the highest quality, fully sustainable and fully supported energy storage, transfer, and power system solutions that enhance lives and promote strategic growth. The expansion of our Oelwein, Iowa distribution facility triggered the design and implementation of a virtual reality training environment. The virtual reality training environment is tied to a specific department process and has been well received by staff. Additionally, it's resulted in a reduction in the time it takes for the trainee to reach proficiency. – *LaTonya Holmes-Tucker, East Penn Manufacturing*

MANUFACTURING 4.0 PARTNERS

Iowa Association of Business & Industry | Iowa Department of Education | Iowa Economic Development Authority
Iowa Workforce Development | Iowa's 15 Community Colleges | Iowa State University/Center for Industrial Research and Service
Professional Developers of Iowa | University of Northern Iowa/Institute for Decision Making