



## DIGITAL INDUSTRIES SOFTWARE

# Expedite – Skills for Industry

A workforce-readiness microcredential

### The challenge

In today's rapidly evolving industrial landscape, a critical disconnect exists between academic preparation and workplace readiness. Despite strong technical foundations, new graduates often struggle to differentiate themselves in the hiring market. Simultaneously, employers face significant challenges identifying candidates who can contribute effectively from day one.

### Market reality

SAE International reports that as many as one in three engineering roles may go unfilled through 2030 due to a lack of next-generation skill sets. Meanwhile, the World Economic Forum reports that 40 percent of core job skills are changing every five years.

Microcredentials, compressed courses of study that demonstrate verifiable skills and culminate in a displayable digital badge, empower employers to prioritize candidates with the specific competencies they need. In turn, microcredentials allow jobseekers the opportunity to differentiate themselves.

### The solution

Introducing Expedite – Skills for Industry, a groundbreaking microcredential developed by Siemens that bridges the gap between academic knowledge and industrial application. This four-course curriculum delivers:

#### Industry-aligned topics

- Product lifecycle management
- Digital twin applications
- AI-driven design principles

- Sustainable engineering practices
- IoT integration
- Electronic design automation

#### Essential professional skills

- Project management
- Cross-functional collaboration
- Business process optimization
- Risk management
- Communication and culture



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[siemens.com/academic](https://www.siemens.com/academic)

### Learner benefits

- Self-paced learning through the global platform
- Verifiable digital badge for portfolio enhancement
- Direct visibility to employers via the talent directory
- Complements formal education
- Industry-validated curriculum

### Industry validation

Expedite – Skills for Industry leverages Siemens' unique position as the leading industrial software provider, ensuring the topics are aligned with industry needs and emerging technologies.

### Advantages

#### For education

- Complement existing engineering programs
- Enhance student employability
- Strengthen industry connections

#### For industry

- Access verified skilled talent
- Reduce onboarding time
- Ensure workplace readiness




Credentials like Expedite – Skills for Industry send a signal to potential employers that a student is willing to do the things that are necessary to make them the most value-added engineer to those organizations...it's an objective verification that you have mastered this body of knowledge."

Craig Downing  
Associate Dean of Lifelong Learning  
and Head of the Department of  
Engineering Management  
Rose-Hulman Institute of Technology


### Examples of the Expedite – Skills for Industry digital learning experience

#### Product Lifecycle

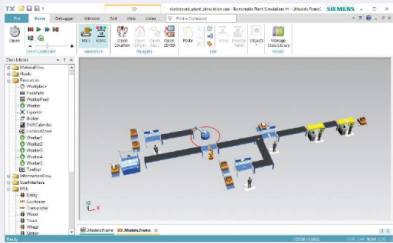
What role does marketing play in the various stages of the product lifecycle?



Click the video to begin.



Previous Continue



Digital transformation sets the stage for the industrial metaverse by digitizing operations and enabling real-time data collection. The metaverse takes it further by providing a virtual environment to interact with, simulate, and improve physical systems.

An industrial design using a digital transformation space.

#### Spanning the project term

Use the spreadsheet to determine the total costs over five years and the total benefits over 5 years.  
Click Submit when both answers are typed in their appropriate space.

Increased output	Reduced waste	Improved quality	Total recurring costs	Initial costs
\$102945.37	\$29794.51	\$26008.07	\$75291.94	\$637547.59

Round answer to the nearest whole number.  
Do not use \$ or commas.

Total costs over 5 years: \$

Total benefits over 5 years: \$

Previous Calculator Submit