

Zengage Learning's Transformative Technology Literacy Microlearning Series (TTLMS) Empowers AI Students and Educators

A Well-Researched and Competency-Based Learning Ecosystem, TTLMS Bridges the Technology Literacy Gap Through Accessible, Self-Paced Microlearning



New York City, New York Jul 24, 2026 ([Issuewire.com](https://www.issuewire.com)) - Zengage Learning today announced the continued expansion of its [Transformative Technology Literacy Microlearning Series \(TTLMS\)](#), a comprehensive, self-paced, competency-based learning ecosystem designed to prepare students, educators, and lifelong learners for success in an increasingly AI-driven world.

Built upon the company's [Transformative Technology Literacy Framework \(TTLF\)](#), TLMS delivers accessible, research-informed technology education that enables learners of all backgrounds, including those with no prior technical experience or formal technology education, to develop the competencies required for academic achievement, career readiness, and lifelong learning.

As artificial intelligence, automation, biotechnology, robotics, and immersive technologies continue to reshape industries, organizations are seeking individuals who possess not only foundational digital skills but also the ability to understand, evaluate, and apply emerging technologies responsibly. TLMS

addresses this growing need through short, engaging, mobile-friendly microlearning experiences that transform complex technical concepts into practical, measurable competencies.

Building Technology Literacy for Every Learner

The Technology Literacy Microlearning Series introduces learners to **40 transformative and emerging technologies** spanning the most influential AI-related industry sectors, including Artificial Intelligence and Machine Learning, Next-Generation Computing, Biotechnology, Robotics, Sustainable Energy, Cybersecurity, Data Science, Digital Transformation, and Immersive Technologies.

Designed around competency-based learning principles, TLMS enables learners to develop a technology vocabulary exceeding **12,000 core industry terms**, while strengthening critical thinking, technology fluency, problem-solving, and real-world application skills. Each microlearning module is intentionally structured to be concise, engaging, and immediately applicable, allowing learners to build confidence through measurable progress rather than lengthy traditional coursework.

The framework aligns with internationally recognized educational standards and best practices, including the **UNESCO ICT Competency Framework for Teachers, ISTE Standards, NAEP Technology and Engineering Literacy Framework, Universal Design for Learning (UDL), and TPACK**, ensuring learners develop competencies that are relevant across academic institutions and workforce environments.

Empowering Students for College, Careers, and Lifelong Learning

[TLMS](#) provides students with a structured pathway to technology literacy by combining foundational knowledge with practical application. Through competency-based instruction, learners gain exposure to emerging technologies while developing the communication, analytical, and critical thinking skills increasingly valued by colleges and employers.

The mobile-first design allows learners to study anytime and anywhere, making technology education more accessible to working adults, traditional students, career changers, and underserved populations. By reducing barriers to entry, TLMS helps learners confidently engage with emerging technologies while preparing for AI-driven academic programs and evolving workforce opportunities.

Supporting Educators Through Practical Professional Development

For educators, TLMS serves as both a classroom resource and a professional development platform. The program operationalizes the Transformative Technology Literacy Framework through classroom-ready instructional modules that support technology-enhanced teaching, AI integration, cross-disciplinary learning, and competency-based assessment.

Educators can leverage TLMS to strengthen instructional practices, personalize learning experiences, implement equitable technology instruction, and measure learner achievement using the TTLF's six-dimensional competency model:

- Defined
- Acquired
- Demonstrated
- Assessed
- Validated

- Recognized

This structured approach enables educators to clearly define learning objectives, assess mastery, validate competencies, and recognize learner achievement while aligning instruction with globally recognized technology literacy standards.

A Scalable Learning Ecosystem for the AI Economy

Beyond individual courses, TLMS represents a comprehensive learning ecosystem designed to bridge the gap between rapidly evolving technologies and practical workforce application. By combining research-based instructional design with scalable microlearning delivery, the program enables educational institutions, workforce development organizations, businesses, and independent learners to cultivate technology literacy efficiently and effectively.

Participants develop the ability to understand emerging technologies, evaluate their impact, communicate technical concepts confidently, apply ethical technology practices, and adapt continuously as innovation accelerates.

Executive Perspective

"Artificial intelligence and emerging technologies are transforming every profession, creating an urgent need for technology literacy that extends far beyond computer science classrooms," said **Leonard Cox, CEO of Zengage Learning**. "Our Transformative Technology Literacy Microlearning Series was created to make transformative technology education accessible to everyone, not just those with technical backgrounds. By combining the research-based Transformative Technology Literacy Framework with flexible, competency-based microlearning, we're empowering students, educators, and lifelong learners to build the knowledge, confidence, and practical skills necessary to thrive in the AI economy. Technology literacy is rapidly becoming a fundamental life skill, and our mission is to ensure every learner has the opportunity to succeed."

About the Transformative Technology Literacy Framework (TTLF)

The [Transformative Technology Literacy Framework](#) is Zengage Learning's research-informed competency model that guides the acquisition, assessment, validation, and recognition of technology literacy skills. The framework emphasizes measurable competency development across multiple dimensions while supporting lifelong learning, digital fluency, ethical technology use, and workforce readiness.

About the Transformative Technology Literacy Microlearning Series (TTLMS)

The Transformative Technology Literacy Microlearning Series is a self-paced, competency-based educational program designed to develop foundational and applied technology literacy across today's most transformative technologies. Through engaging microlearning experiences, learners acquire industry-relevant knowledge, practical competencies, and technology fluency that support college readiness, workforce development, and continuous professional growth.

About Zengage Learning

Zengage Learning develops innovative educational solutions that prepare learners for success in a rapidly evolving digital world. Through competency-based learning, research-informed instructional

frameworks, and accessible technology education, the organization equips students, educators, institutions, and workforce partners with the knowledge and skills necessary to succeed in the future of work. For more information visit <https://zengagelearning.com>



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