

Engineering and Technology Education

Alignment of Educator Standards with State and National Standards

Indiana Educator Standards for Engineering and Technology Education	Indiana Academic Standards for Technology Education	Standards for Technological Literacy	ITEA/CTTE/NCATE Curriculum Standards	ISTE National Educational Technology Standards
<p><u>Standard 1: Nature of Engineering and Technology</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of the historical, cultural, political, societal, and economic roles of engineering and technology.</p>	1, 3, 6, 15, 16, 19	1–7	1, 2, 4	4
<p><u>Standard 2: The Engineering Design Process</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of the characteristics of the engineering design process and its role in technology systems.</p>	2, 4–10, 14, 16	8–11	3, 4	
<p><u>Standard 3: Energy Systems and Power Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of tools, equipment, materials, and procedures used in energy systems and power systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 18	12, 13, 16	5	
<p><u>Standard 4: Communication Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of tools, equipment, materials, and procedures used in communication systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 18	12, 13, 17	5	

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<p><u>Standard 5: Transportation Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of tools, equipment, materials, and procedures used in transportation systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 18	12, 13, 18	5	
<p><u>Standard 6: Manufacturing Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of tools, equipment, materials, and procedures used in manufacturing systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 18	12, 13, 19	5	
<p><u>Standard 7: Construction Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of tools, equipment, materials, and procedures used in construction systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 18	12, 13, 20	5	
<p><u>Standard 8: Biotechnology Systems and Medical Systems</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of the basic tools, equipment, materials, and procedures used in biotechnology systems and medical systems and the scientific and engineering principles underlying these systems.</p>	4, 11–14, 16, 17, 19	4, 15	5	

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<p><u>Standard 9: Instruction and Assessment in Engineering and Technology Education</u></p> <p>Engineering and technology education teachers have a broad and comprehensive understanding of content-specific instruction and assessment in engineering and technology education.</p>			6-9	1a-1d; 2a-2d; 3a-3d; 4a-4d; 5a-5d