

# MISSOURI EDUCATOR GATEWAY ASSESSMENTS

## Field 046 Technology & Engineering

### Content Alignment Table

The Content Alignment Study below provides information about the alignment of knowledge and skills described in the competencies that make up the test framework for this licensure test with the national standards designated by the Department of Elementary and Secondary Education for this field. The table indicates those portions of the relevant state and/or national standards that are addressed -- in whole or in part -- by each competency.

Test Competency	International Technology and Engineering Educators Association (ITEEA) (2020) Standards for Technological and Engineering Literacy: The Role of Technology and Engineering in STEM Education
<b>Core Principles of Technology and Engineering Design</b>	
0001 Understand the nature of technology.	Core Disciplinary Standard 1, Core Disciplinary Standard 2, Core Disciplinary Standard 3, Technology and Engineering Practices (TEP) Standard 1
0002 Understand interrelationships between technology and society.	Core Disciplinary Standard 4, Core Disciplinary Standard 5, Core Disciplinary Standard 6, TEP Standard 6, TEP Standard 7, TEP Standard 8
0003 Understand technological and engineering design.	Core Disciplinary Standard 7, TEP Standard 2, TEP Standard 3, TEP Standard 4, Technology and Engineering Context (TEC) Standard 1
0004 Understand abilities for a technological world.	Core Disciplinary Standard 8, TEC Standard 1
<b>Information and Communication Systems</b>	
0005 Understand principles of information processing.	TEC Standard 1, TEC Standard 5
0006 Understand drafting and graphic communication.	TEC Standard 5
0007 Understand principles of electronic communication.	TEC Standard 1, TEC Standard 5
<b>Energy, Power, and Transportation Systems</b>	
0008 Understand principles of energy and power.	TEC Standard 4
0009 Understand energy and power technologies.	TEC Standard 1, TEC Standard 4
0010 Understand transportation technologies.	TEC Standard 3

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<b>Materials, Manufacturing, and Construction Systems</b>	
0011 Understand properties of materials.	TEC Standard 2
0012 Understand manufacturing technologies.	TEC Standard 1, TEC Standard 2
0013 Understand construction technologies.	TEC Standard 6
<b>Medical and Biotechnologies</b>	
0014 Understand fundamentals of agriculture and related biotechnologies.	TEC Standard 8
0015 Understand fundamentals of medical technologies.	TEP Standard 8, TEC Standard 7
<b>Fundamentals of Technology Education</b>	
0016 Understand careers and career development.	This is not covered in the ITEEA Standards, as they are student standards, not teacher standards.
0017 Understand instruction and assessment in technology education.	Core Disciplinary Standard 3