

TENNESSEE CAREER AND TECHNICAL EDUCATION TEXTBOOK SCREENING INSTRUMENT
Sections I & III Reviews

Book:	Agricultural Mechanics and Technology Systems	Publisher:	Goodheart-Willcox
ISBN:	978-1-63126-255-5	Year:	2017
Levels/Course:	Basal	Category:	5944

BEFORE YOU BEGIN

ALIGNMENT TO THE TENNESSEE CAREER AND TECHNICAL EDUCATION STANDARDS:

Tennessee's Career and Technical Education Standards (hereafter, "the standards") represent a significant shift in the definition of student proficiency within career and technical education environments. Evaluators of materials should understand that the standards replace the proficiency frameworks of years past in three major respects:

- 1) A shift to clear, specific, and measurable expectations for student learning. The standards articulate deep knowledge and skill attainment, departing from the competency-based structure of years past.
- 2) Increased focus on rigor in literacy and mathematics within technical contexts. The new standards align to all Tennessee State Standards for English Language Arts and Literacy in Technical Subjects and, where appropriate, select Tennessee State Standards in Mathematics.
- 3) Sequential progression of knowledge and skills within and across courses. The new standards build on each other both within course content and across course levels, arranged within programs of study that culminate in capstone and/or work-based learning experiences for students.

Evaluators of materials must be well versed in the standards for the course(s) aligned to the materials in question, how the content fits into the progressions in the content standards, and the expectations of the standards with respect to conceptual understanding, fluency, and technical application. Aligned courses in the Architecture & Construction Career Cluster:

ORGANIZATION OF THIS DOCUMENT

SECTION II: ADDITIONAL ALIGNMENT CRITERIA AND INDICATORS OF QUALITY

Section II includes additional criteria for alignment to the standards as well as indicators of quality.

SECTION III: FOCUS AREA (*optional*)

Section III allows reviewers to capture qualitative observations on an additional area of focus, if presented in the materials.

**For the purposes of this document, Tennessee CTE students are considered to be enrolled in course "levels" (i.e., Level 1, Level 2, Level 3, and Level 4) due to variation in the grade level at which students may take a course. For example, a tenth-grade student may be enrolled in a Level 1 course. For this reason, reviewers are asked to evaluate materials on the basis of their alignment to particular *course levels*, not *grade levels* or *grade bands*.*

***This percentage is a guide. Reviewers should not attempt to compute percentages based on counting pages or counting lessons. Reviewers will use their professional judgment to determine how students are meant to spend their time to determine focus and provide evidence for their decision.*

Section II(1). ADDITIONAL ALIGNMENT CRITERIA	SCORE	JUSTIFICATION/NOTES
<p>A. Materials are aligned to relevant national and/or industry standards where appropriate. For example, <i>Mechatronics I</i> materials routinely make reference to and reinforce connections with national industry certification standards from companies like Siemens.</p>	2	<p>The text is specifically aligned with industry standards and expectations that are specific to the agriculture mechanics area. The text doesn't offer too many specifics about actual certifications that a student can get; however, it does help the student understand the expectations of many of the top industry professionals.</p>
<p>B. Materials are aligned to discipline-specific content or pedagogical frameworks frequently used by professionals in associated industries. For example, <i>Differentiating Instruction</i> materials routinely make reference to and reinforce connections with instructional strategies that meet the educational needs of the student, as specified in the standards.</p>	2	<p>This text is up to standards when it comes to discipline specific content. I felt that it did a good job aligning with the with the specific knowledge that is expected in the ag mech industry.</p>
<p>C. Connections are made to discipline-specific professional societies and organizations, and their value is clearly communicated in the materials. For example, <i>School Counseling</i> materials routinely make reference to and reinforce connections with the American School Counselor Association (ASCA).</p>	2	<p>Throughout the text you can find much evidence about professional organizations that students can become involved with once they enter they field. It also communicates the values of the organization by outlining certain contributions that the organization has made to the field.</p>

Additional Comment Section II(1):

Section II(2). SEQUENCE AND PROGRESSION OF STANDARDS	SCORE	JUSTIFICATION/NOTES
<p>A. Connections are made within a course between knowledge and skills, where these connections are appropriate and natural, as set forth by the standards.</p>	2	<p>This text does an outstanding job as serving as the initial text to the course in the cluster. Students will advance onto 2 other classes; however, this text offers the basic knowledge that is important and essential for a student before they enter the remaining courses.</p>
<p>B. Materials are vertically coherent with previous courses and these connections are made clear in the materials. The connections are explicit to the other materials in the course.</p>	2	<p>Each chapter builds upon the last. The knowledge base that you need in chapter 11 (for example) is dependent on the knowledge that you learn in chapter 10. Each chapter does an outstanding job at vertically aligning with the material in the book.</p>
<p>C. For materials in a series, content progressions reflect the progressions as seen in the standards. These progression connections are clearly indicated in the materials. Any discrepancies in content progressions enhance the required learning in each course and are clearly aimed at helping students meet the standards as written.</p>	2	<p>As previously mentioned, the text does an outstanding job at aligning the materials upon the previous chapter. As you move further into the text, you can expect more difficult material that must have been learned earlier in the text. You also have a whole area dedicated to</p>

		projects that you must have knowledge from the entire text to complete.
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Section II(3). TEACHER SUPPORTS	SCORE	JUSTIFICATION/NOTES
A. Materials support teachers in ways such as the following: planning (including ideas for pacing), sample lessons, laboratory applications, projects, vocabulary, and instructional strategies.	2	The text offers opportunities for the educator to use various supports to help the student better understand the material. At the end of each chapter, it has sections for student knowledge and products. They have an online teachers resource that is in the works; however, it isn't done.
B. Materials include teacher-directed materials that explain the role of the practice activities in the classroom and in students' content development. Problems and activities present opportunities for students to make use of and exhibit the skills as they work on mastery of content.	0	Online teachers resource in the works
C. Opportunities and resources are provided for teachers to conduct independent study to enhance their own understanding and knowledge of course topics. Materials provide avenues to seek and identify quality professional development in a manner that will support student learning.	0	online teachers resource in the works

Section II(4). USABILITY	SCORE	JUSTIFICATION/NOTES
<p>A. Materials can be accessed in a variety of formats and media, including but not limited to printed textbooks, digital storage devices, online applications, and cloud-based forums.</p>	2	<p>The text offers an online version of the text, it also offers study guides online for students to access and help better their own understanding of the material. It has flash cards, matching, and a know and understand section for each online chapter.</p>
<p>B. Materials are clear and easy to read for students, teachers, and parents. The design and graphics do not distract from the course content and are appropriately placed.</p>	2	<p>Materials are very clear for the reader to understand. It is professionally put together, and in such a way that allows the reader to have a variety of visual images to help them further understand the information.</p>
<p>C. Materials include supports for all learners, e.g., ELs, students who are below grade level, advanced students.</p>	1	<p>I felt that this text does a decent job at providing differentiated opportunities for learners at various levels. You can take on more complex assignments in such things as the major projects, or you can do something as simple as fill in the blank.</p>

D. Materials are culturally and politically sensitive to the full range of potential users, and do not advance unwarranted opinions that are not factually based. All materials strive to present content, not beliefs.	2	
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Please note any concerns with sensitivity below:

Section II(5). ASSESSMENTS	SCORE	JUSTIFICATION/NOTES
A. Materials include aligned assessments at regular intervals throughout the text(s), or as supplements to the primary instructional materials. Aligned assessments may include end-of-chapter quizzes, unit test modules, and practice exams.	2	The end of chapter assignments offers the user a variety of ways to test their knowledge. I never felt there was enough assessment going on throughout the chapter; however, the end of chapter work is sufficient. Matching, projects, fill in the blank, and Words to know.
B. Materials offer ideas and guidance on measuring student progress throughout the duration of the aligned course(s). Formative, interim, and summative assessment strategies are all presented to inform instructional strategy and improvement.	1	I felt like the text struggled in this area; however, it does allow the user to apply the knowledge in various skill related activities. It doesn't specifically list assessments throughout the text; however, an opportunity does exist to test your own knowledge through projects.

C. Materials include assessment accommodations for diverse learners, including sample items that capture multiple measures of student proficiency.	2	The text offers many opportunities for diverse learners to understand the material. As mentioned earlier, it offers lower level thinking activities to higher order thinking activities. It offers STEM projects in which a student can apply everything that they have learned into a project format.
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Please use the space below to leave any additional notes about Section II not previously captured:

SECTION III (optional): FOCUS AREA

Use this section to capture qualitative observations on an additional area of focus, if presented in the materials. A sample focus area for the Health Informatics program of study is provided in the following. If applicable, fill in the blank table with observations and notes.

III. EXAMPLE: FOCUS IN Health Information Systems	NOTES
A. Materials include coverage of major parameters most frequently reported in health databases.	<i>[Insert reviewer evaluation here.]</i>
B. Materials draw clear connections between policy and procedures and the legal ramifications of health informatics.	<i>[Insert reviewer evaluation here.]</i>
III. FOCUS AREA:	NOTES

Appendix A, Career and Technical Education: Programs of Study by Course