

NM Public Education Department

METAL FABRICATION FOR THE AGRICULTURAL INDUSTRY

END-OF-COURSE EXAM | GRADE 9-12 | YEAR 17-18

ASSESSMENT BLUEPRINT

Purpose Statement

Metal Fabrication for the Agricultural Industry

The Metal Fabrication for the Agricultural Industry End-of-Course Exam is designed to measure student proficiency of the standards and performance elements aligned to the Common Career Technical Core Standards (https://cte.careertech.org/sites/default/files/CCTC_Standards_Formatted_2014.pdf). This course-level exam is provided to all students who have completed Metal Fabrication for the Agricultural Industry.

This exam can be given for the following STARS course code:

0153 - Metal Fabrication for the Agricultural Industry

Intended as a final exam for the course, this is a summative exam covering a wide range of content, skills, and applications. Scores are reported to the teacher, school, district, and state levels for the purposes of student grades, curriculum review, and NMTeach summative reports.

New Mexico State University College of Agriculture, Consumer and Environmental Sciences

This blueprint was developed and piloted in 2016 by the New Mexico State University's (NMSU) Secondary Agriculture Education Office (<http://aces.nmsu.edu/>) in partnership with New Mexico agriculture educators. NMSU uses test items with consent from MYCaert, Inc. (<http://www.mycaert.com>). MyCaert has given copyright permissions to the New Mexico Public Education Department (NMPED).

Sample Questions

The NMPED has released sample items (prior test exam questions in the test bank) for each performance element. Due to a limited item bank, only five, EOC specific, sample questions have been provided on the blueprint. The depth of knowledge (DOK) level has also been identified for each sample question.

Blueprint Table—Metal Fabrication for the Agricultural Industry

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
Power, Structural & Technical Systems	AG-PST.1	<p>Performance Element: Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural and technical systems.</p> <p>Sample Question: Name the 3 areas that are classified as physical science.</p> <p>A. physics, agronomy, horticulture B. earth science, agronomy, geology * C. earth science, chemistry, physics D. anatomy, agronomy, physics</p> <p>DOK 2</p>
	AG-PST.2	<p>Performance Element: Operate and maintain AFNR mechanical equipment and power systems.</p> <p>Sample Question: Which of the following is a file with sharp, pointed teeth?</p> <p>A. double cut B. potentator C. rasp * D. rat-tail</p> <p>DOK 1</p>
	AG-PST.4	<p>Performance Element: Plan, build and maintain AFNR structures.</p>
Agriculture, Food & Natural Resources	AG.1	<p>Performance Element: Analyze how issues, trends, technologies and public policies impact systems in the Agriculture, Food & Natural Resources Career Cluster.</p>

Agribusiness Systems	AG-BIZ.1	<p>Performance Element: Apply management planning principles in AFNR businesses.</p> <p>Sample Questions:</p> <p>1. What statement should appear in the first paragraph of a letter of application which states the job a candidate is applying for?</p> <p>A. curriculum vitae B. career objective C. explanation of intent * D. resume DOK 1</p> <p>2. FFA members are encouraged to have supervised agriculture experience programs (SAE) in place. An exploratory SAE would allow for which of the following?</p> <p>A. a member to work in production areas B. a member to work in sales, service and processing C. a wide variety of agriculture experience * D. development of wage earning programs DOK 2</p>
	AG-BIZ.3	<p>Performance Element: Manage cash budgets, credit budgets and credit for an AFNR business using generally accepted accounting principles.</p> <p>Sample Question: Identify the two primary categories of insurance.</p> <p>A. premium and beneficiary B. life and property * C. whole and term D. car and auto DOK 1</p>

Metal Fabrication for the Agricultural Industry EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Power, Structural & Technical Systems	AG-PST.1	2	10		12
	AG-PST.2		6	2	8
	AG-PST.4			4	4
Agriculture, Food & Natural Resources	AG.1			2	2
Agribusiness Systems	AG-BIZ.1		20		20
	AG-BIZ.3		9		9
Total		2	45	8	55