

NM Public Education Department

GREENHOUSE AND NURSERY OPERATIONS

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

ASSESSMENT BLUEPRINT

Purpose Statement

Greenhouse and Nursery Operations

The Greenhouse and Nursery Operations 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 Greenhouse and Nursery Operations.

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

0143 - Greenhouse and Nursery Operations

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—Greenhouse and Nursery Operations

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
Plant Systems	AG-PL.1	<p>Performance Element: Develop and implement a crop management plan for a given production goal that accounts for environmental factors.</p> <p>Sample Question: What type of greenhouse is recommended for families with limited space for a garden?</p> <p>A. even-span greenhouse B. uneven-span greenhouse C. lean-to greenhouse * D. ridge and furrow greenhouse</p> <p>DOK 2</p>
	AG-PL.2	<p>Performance Element: Apply the principles of classification, plant anatomy and plant physiology to plant production and management.</p>
	AG-PL.3	<p>Performance Element: Propagate, culture and harvest plants and plant products based on current industry standards.</p> <p>Sample Questions: Keeping a list of plant materials on hand is done as part of what process?</p> <p>A. invoice B. inventory * C. marketing D. materials sheet</p> <p>DOK 1</p>

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
		<p>Identify the system that is designed to have plant roots suspended in the air within a closed container.</p> <p>A. aeroponics * B. aquaponics C. hydroponics D. soilless culture DOK 1</p> <p>What is the name of the small pieces of plant material used in tissue culture?</p> <p>A. auxin B. callus C. explant * D. plantlet DOK 1</p>
Agribusiness Systems	AG-BIZ.1	<p>Performance Element: Apply management planning principles in AFNR businesses.</p> <p>Sample Question: What is used to check the inventory in a horticulture business?</p> <p>A. financial records B. a combination of both C. greenhouse supply catalog D. physical records * DOK 1</p>
	AG-BIZ.5	<p>Performance Element: Use sales and marketing principles to accomplish AFNR business objectives.</p>

Greenhouse and Nursery Operations EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Plant Systems	AG-PL.1			9	9
	AG-PL.2		4		4
	AG-PL.3	22			22
Agribusiness Systems	AG-BIZ.1	2	13		15
	AG-BIZ.5	1	4		5
Total		25	21	9	55