

Agriculture Systems Fundamentals - Non Credit

Upon successful completion of the Agriculture Systems Fundamentals certificate program, students will be prepared with foundational knowledge and skills needed for employment in the agricultural workforce. The participants will be able to explain the principles of agriculture, agriculture technologies, and agriculture equipment, read and create agricultural documents, identify safety equipment, safety processes and procedures, and safely work with basic agriculture equipment and tools.

Core Skills

1. Digital Literacy
2. Basic Equipment Operation
3. Basic Equipment Configuration
4. Basic Equipment Troubleshooting
5. General Agriculture Systems Fundamentals
6. Crop Production Systems
7. Tool Operation
8. Applied Technical Reading
9. Employability Skills
10. Animal Production Systems
11. Food Safety
12. Basic Safety
13. Industry Communication
14. Applied Technical Writing

To assess mastery of these core skills, we also defined 59 performance indicators to outline what students need to demonstrate for each skill. While these core skills might initially appear advanced, it's crucial to note that their evaluation will occur at a foundational level. These carefully chosen skills, aligned with industry demands, are designed to equip students with an understanding of the entire agricultural value chain. This proficiency allows them to seamlessly navigate various scenarios and adapt to the evolving industry landscape.

Program Student Learning Outcomes

1. Justify foundational agricultural concepts.
2. Select, effectively utilize, and identify faults with technologies for agricultural processes.
3. Connect employability skills, quantitative reasoning, and effective communication within an agricultural context.

Recommended Course Sequence: [Falcon Pathway: Agriculture Systems Fundamentals Noncredit Cert.](#)

Program Requirements

<i>Course #</i>	<i>Title</i>	<i>Units</i>
Required Core Courses		
NC 191	Agriculture Technical Literacy	N/A
NC 192	Agricultural Systems	N/A
NC 193	Agricultural Safety	N/A
NC 194	Equipment Operation, Configuration, & Troubleshooting	N/A
NC 195	Workplace Effectiveness	N/A
	Total	216
		HOURS