

## **Agriscience Mechanics Information Sheet – 2025**

### **Practicum #1 Planning an Agriculture Project**

Contestants will complete a practicum activity focused on constructing agricultural projects. Contestants should be able to read and interpret project plans, identify and select hardware, choose the appropriate tools, and calculate the bill of materials.

Questions cover the equipment in the fastener, layout, wood boring, and other sections of the Agriscience Mechanics Identification Sheet.

All questions will be multiple-choice. Please refer to the provided scantron sheet for directions and review how to fill it out correctly with your contestants.

Resource: Ag. Mechanics Fundamentals & Applications text 5<sup>th</sup> ed.; Section 3, Unit 8 & Section 5 Unit 18.

Time Limit: 12 ½ minutes

Scoring: 50 points

### **Practicum #2 Finishing an Agriculture Project**

Contestants will participate in a practicum activity focused on preparing and finishing wood projects. They should be able to select and identify finishing materials, estimate the materials needed for paint jobs, and choose the appropriate tools and supplies.

Questions include equipment in the layout and other Agriscience Mechanics Identification Sheet sections.

All questions will be multiple-choice. See the provided scantron sheet for directions and review how to fill it out with your contestants properly

Resource: Ag. Mechanics Fundamentals & Applications text 5<sup>th</sup> ed.; Section 3, Unit 10. Section 9, Unit 27&28

Time Limit: 12 ½ minutes

Scoring: 50 points

### **Skill – Wood Project Construction**

Contestants will receive a set of woodworking project plans and will be asked to create the project according to the outlined procedure. Contestants should be able to read and interpret project plans, locate and mark measurements, make square or curved cuts, drill or bore a hole, and fasten wood.

Contestants will be evaluated on safety, proper tool use, measurements, and the quality of the finished project. They may also respond to questions regarding the wood construction project. Students will receive directions and a grading rubric.

All contest materials and tools will be provided.

Time Limit: 25 minutes

Scoring: 100 points

Resource: Ag. Mechanics Fundamentals & Applications text 5<sup>th</sup> ed.; Section 3 Unit 8,9 &10.

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## HORTICULTURE

**CDE# 105482**

Incorrect Marks    Correct Mark



Team Name

# AGRISCIENCE MECHANICS

| Team Number |   |   |   |
|-------------|---|---|---|
| 0           | 0 | 0 | 0 |
| 1           | 1 | 1 | 1 |
| 2           | 2 | 2 | 2 |
| 3           | 3 | 3 | 3 |
| 4           | 4 | 4 | 4 |
| 5           | 5 | 5 | 5 |
| 6           | 6 | 6 | 6 |
| 7           | 7 | 7 | 7 |
| 8           | 8 | 8 | 8 |
| 9           | 9 | 9 | 9 |

Code

|   |   |
|---|---|
|   |   |
| 0 | 0 |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |

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| Practicums (Judges) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1                   |   |   | 2 |   |   | 3 |   |   | 4 |   |   | 5 |   |   | 6 |   |   |
| 0                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## SKILL

(score filled in by judges)

Assessment and Solution

1 (A B C D) 6 (A B C D) 11 (A B C D) 16 (A B C D) 21 (A B C D)

**PRACTICUM 1 (Questions 1 – 10)**

**PRACTICUM 2 (Questions 11 - 20)**

## PRACTICUM 1 (Questions 1 – 10)

## PRACTICUM 2 (Questions 11 - 20)

**PROBLEM SOLVING**

**Questions 1 - 20**

| Exam 2/Team |         |
|-------------|---------|
| 1           | A B C D |

  

| Exam |         |
|------|---------|
| 1    | A B C D |
| 2    | A B C D |
| 3    | A B C D |
| 4    | A B C D |
| 5    | A B C D |
| 6    | A B C D |
| 7    | A B C D |
| 8    | A B C D |
| 9    | A B C D |
| 10   | A B C D |
| 11   | A B C D |
| 12   | A B C D |
| 13   | A B C D |
| 14   | A B C D |
| 15   | A B C D |
| 16   | A B C D |
| 17   | A B C D |
| 18   | A B C D |
| 19   | A B C D |
| 20   | A B C D |
| 21   | A B C D |
| 22   | A B C D |
| 23   | A B C D |
| 24   | A B C D |
| 25   | A B C D |

**WRITTEN TEST**

# WRITTEN TEST

# PROBLEM SOLVING

## Questions 1 - 20

Identification A

|                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Number<br>of<br>Specimen | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |   |
|                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|                          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |   |
|                          | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |
|                          | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |   |
|                          | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |   |
|                          | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |   |
|                          | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |   |
|                          | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |   |
|                          | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8 |
|                          | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |   |
|                          | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |   |
|                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|                          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |   |
|                          | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |   |
|                          | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |   |
|                          | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |   |
|                          | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |   |
|                          | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |   |
|                          | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |   |
| 8                        | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |    |   |
| 9                        | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |   |

IDENTIFICATION 1 - 25

Identification B

|                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Number<br>of<br>Specimen | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|                          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                          | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                          | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                          | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                          | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                          | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                          | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                          | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                          | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                          | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|                          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                          | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                          | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                          | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                          | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                          | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                          | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
| 8                        | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |    |
| 9                        | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |    |

Number  
of  
Specimen