

Instruction Sheet for the Candidate

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| Qualification | Agricultural Machinery Technician (Level-04) |
| Competency Standard | Maintain Electrical System |
| Purpose of Assessment | Formative Assessment |
| Candidate Details | Name_____ |
| | Registration/Roll Number_____ |
| Guidance for Candidate | <p>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Maintain fuel gauge • Maintain temperature gauge • Maintain oil pressure indicator • Maintain head light circuit • Maintain indicator circuit • Maintain horn circuit • Maintain Brake light circuit |
| Time: 03 Hrs. | During a practical assessment, under observation by an assessor, you are required to |
| Minimum Evidence Required | <p>Maintain fuel gauge</p> <ol style="list-style-type: none"> 1. Inspect fuel sending unit 2. Inspect instrument panel unit 3. Check the continuity between instrument panel unit and sending unit 4. Replace fuel sending unit 5. Replace instrument panel unit <p>Maintain temperature gauge</p> <ol style="list-style-type: none"> 1. Check the continuity between both unit 2. Replace the instrument panel unit 3. Replace the temperature sensor <p>Maintain oil pressure indicator</p> <ol style="list-style-type: none"> 1. Check the continuity between both unit 2. Replace the instrument panel unit 3. Replace the pressure gauge <p>Maintain head light circuit</p> <ol style="list-style-type: none"> 4. Check the continuity between head light and switch 5. Replace the head light bulb or tube 6. Replace the head light fuse 7. Replace the head light switch 8. Replace the head light relay |

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| | <p>9. Adjust or aiming the head light</p> <p>Maintain indicator circuit</p> <ol style="list-style-type: none"> 1. Check the continuity between indicator light and switch 2. Replace the indicator light bulb 3. Replace the indicator light fuse 4. Replace the indicator light switch 5. Replace the flasher of indicator light <p>Maintain horn circuit</p> <ol style="list-style-type: none"> 1. Check the continuity between horn and switch 2. Adjust the horn sound 3. Replace the horn system fuse 4. Replace the horn 5. Replace horn switch <p>Maintain Brake light circuit</p> <ol style="list-style-type: none"> 1. Check the continuity between brake pedal switch and Brake Light 2. Replace brake light circuit fuse 3. Adjust the brake pedal switch 4. Replace the brake pedal switch 5. Replace the brake pedal light bulb |
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Self-Assessment Checklist

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| Candidate Name | |
| Registration No. | |
| Qualification | Agricultural Machinery Technician (Level-04) |
| Competency Standard | Maintain Electrical System |
| Purpose of Assessment | Formative Assessment |
| Assessment Task | <ul style="list-style-type: none"> • Maintain fuel gauge • Maintain temperature gauge • Maintain oil pressure indicator • Maintain head light circuit • Maintain indicator circuit • Maintain horn circuit • Maintain Brake light circuit |

I can.....

| Performance Criteria | Yes | No |
|--|--------------------------|--------------------------|
| 1. Inspect fuel sending unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Inspect instrument panel unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Check the continuity between instrument panel unit and sending unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Replace fuel sending unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Replace instrument panel unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Check the continuity between both unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Replace the instrument panel unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Replace the temperature sensor | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Check the continuity between both unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Replace the instrument panel unit | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Replace the pressure gauge | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Check the continuity between head light and switch | <input type="checkbox"/> | <input type="checkbox"/> |

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| 13. Replace the head light bulb or tube | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Replace the head light fuse | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Replace the head light switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Replace the head light relay | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Adjust or aiming the head light | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Check the continuity between indicator light and switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Replace the indicator light bulb | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Replace the indicator light fuse | <input type="checkbox"/> | <input type="checkbox"/> |
| 21. Replace the indicator light switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 22. Replace the flasher of indicator light | <input type="checkbox"/> | <input type="checkbox"/> |
| 23. Check the continuity between horn and switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 24. Adjust the horn sound | <input type="checkbox"/> | <input type="checkbox"/> |
| 25. Replace the horn system fuse | <input type="checkbox"/> | <input type="checkbox"/> |
| 26. Replace the horn | <input type="checkbox"/> | <input type="checkbox"/> |
| 27. Replace horn switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 28. Maintain Brake light circuit | <input type="checkbox"/> | <input type="checkbox"/> |
| 29. Check the continuity between brake pedal switch and Brake Light | <input type="checkbox"/> | <input type="checkbox"/> |
| 30. Replace brake light circuit fuse | <input type="checkbox"/> | <input type="checkbox"/> |
| 31. Adjust the brake pedal switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 32. Replace the brake pedal switch | <input type="checkbox"/> | <input type="checkbox"/> |
| 33. Replace the brake pedal light bulb | <input type="checkbox"/> | <input type="checkbox"/> |

Candidate's Signature _____ Assessor's Signature _____

Date: _____

Assessors Judgment Guide

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| Qualification | Agricultural Machinery Technician (Level-04) |
| Competency Standard | Maintain Electrical System |
| Purpose of Assessment | Formative Assessment |
| Candidate Details | Name: _____ Registration/Roll Number: _____ Signature: _____ |
| Assessment Outcome | COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____ |

| Assessment Summary (to be filled by the assessor) | | | | | | | |
|---|---------|------|-------------|-----------|-----------|-----------|-------------------|
| Activity | Method | | | | | Result | |
| Nature of Activity | Written | Oral | Observation | Portfolio | Role Play | Competent | Not Yet Competent |
| Practical Skill Demonstration | | | ✓ | | | | |
| Knowledge Assessment | | ✓ | | | | | |
| Other Requirement | | | | | | | |

Observation Checklist

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| Assessment Task | | <ul style="list-style-type: none"> • Maintain fuel gauge • Maintain temperature gauge • Maintain oil pressure indicator • Maintain head light circuit • Maintain indicator circuit • Maintain horn circuit • Maintain Brake light circuit | | |
| During the practical assessment, candidate demonstrated the following: | | Yes | No | Remarks |
| 1. | Inspect fuel sending unit | | | |
| 2. | Inspect instrument panel unit | | | |
| 3. | Check the continuity between instrument panel unit and sending unit | | | |
| 4. | Replace fuel sending unit | | | |
| 5. | Replace instrument panel unit | | | |
| 6. | Check the continuity between both unit | | | |
| 7. | Replace the instrument panel unit | | | |
| 8. | Replace the temperature sensor | | | |
| 9. | Check the continuity between both unit | | | |
| 10. | Replace the instrument panel unit | | | |
| 11. | Replace the pressure gauge | | | |
| 12. | Check the continuity between head light and switch | | | |
| 13. | Replace the head light bulb or tube | | | |
| 14. | Replace the head light fuse | | | |
| 15. | Replace the head light switch | | | |
| 16. | Replace the head light relay | | | |
| 17. | Adjust or aiming the head light | | | |
| 18. | Check the continuity between indicator light and switch | | | |
| 19. | Replace the indicator light bulb | | | |

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| 20. | Replace the indicator light fuse | | | |
| 21. | Replace the indicator light switch | | | |
| 22. | Replace the flasher of indicator light | | | |
| 23. | Check the continuity between horn and switch | | | |
| 24. | Adjust the horn sound | | | |
| 25. | Replace the horn system fuse | | | |
| 26. | Replace the horn | | | |
| 27. | Replace horn switch | | | |
| 28. | Maintain Brake light circuit | | | |
| 29. | Check the continuity between brake pedal switch and Brake Light | | | |
| 30. | Replace brake light circuit fuse | | | |
| 31. | Adjust the brake pedal switch | | | |
| 32. | Replace the brake pedal switch | | | |
| 33. | Replace the brake pedal light bulb | | | |
| Competent <input type="checkbox"/> | | Not Yet Competent <input type="checkbox"/> | | |

Knowledge Assessment

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|------------------------------|---|
| Qualification | Agricultural Machinery Technician (Level-04) |
| Competency Standard | Maintain Electrical System |
| Purpose of Assessment | Formative Assessment |
| Candidate Details | Name: _____ Registration/Roll Number: _____ Candidate Signature: _____ |
| Assessment Outcome | <div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____ |

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

| Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application) | | Satisfactory | Not Satisfactory |
|---|---|--------------|------------------|
| 1. | Name any three tools used for electrical circuit repair | | |
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| 2. | What is use of temperature gauge sensor | | |
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| 3. | What are the precautionary measures required for the maintaining of electrical system | | |

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| 4. | How many ampere required the battery | | |

| Feedback to the Candidate | |
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| Candidate's Signature_____ | Assessor's Signature _____ |