071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6

ENG/OS/AGR/CR/01/6/A

Operate Agricultural and Related Production Machinery and Equipment

Nov/Dec 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

OBSERVATION CHECKLIST

| Candidate's Name & Registration Code | | | |
|--|--------------------|-------------------|----------|
| Assessors Name & Registration Code | | | |
| Venue of Assessment | | | |
| Date of Assessment | | | |
| Items to be evaluated: Please a ward marks as appropriate. Give a brief comment on your observation. | Marks available | Marks obtained | Comments |
| Worn personal protective equipment. (overall, gloves, safety boots) (Award 1 mark each) | 3 | | |
| Assembled tools, material and equipment (Award 1 mark for each set) | 2 | | |
| 3. Carried out general inspection on the | | | |

| Seed hopper | | | |
|--|--|--|--|
| • Seed hopper | | | |
| * * | | | |
| • Seed tubes. | | | |
| Seed metering device | | | |
| ward 1 mark each) | | | |
| arried out lubrication on the sprockets | 3 | | |
| nd bearings. | | | |
| Award 1 mark for identification of | | | |
| prockets, bearings and appropriate use | | | |
| greasing gun) | | | |
| ghtened loose bolts and nuts | 2 | | |
| ward 1 mark each) | 200 | | |
| etermined the planter width, W | , & 2° | | |
| ward 2 marks) | asylv | | |
| leasured the length of a strip necessary | 2 | | |
| cover $\frac{1}{10}$ hectare. | | | |
| ward 2 marks) | | | |
| leasured the diameter of the wheel using | 3 | | |
| tape measure and calculated the | | | |
| rcumference | | | |
| Award 1 mark for measuring,1 mark for | | | |
| alculating and 1 mark for accuracy) | | | |
| etermined the number of revolutions, N, | 2 | | |
| e ground wheel has to make to cover | | | |
| e length, L. | | | |
| ward 1 mark for calculation and 1 | | | |
| ark for accuracy) | | | |
| aised the seed drill in such a way that | 2 | | |
| e ground wheels turn freely. | | | |
| | • Seed metering device ward 1 mark each) urried out lubrication on the sprockets d bearings. Award 1 mark for identification of rockets, bearings and appropriate use greasing gun) ghtened loose bolts and nuts ward 1 mark each) etermined the planter width, W ward 2 marks) easured the length of a strip necessary cover \(\frac{1}{10}\) hectare. ward 2 marks) easured the diameter of the wheel using ape measure and calculated the rounference award 1 mark for measuring, 1 mark for locality and 1 mark for accuracy) etermined the number of revolutions, N, e | • Seed metering device ward 1 mark each) urried out lubrication on the sprockets d bearings. Award 1 mark for identification of rockets, bearings and appropriate use greasing gun) ghtened loose bolts and nuts ward 1 mark each) etermined the planter width, W ward 2 marks) easured the length of a strip necessary cover \(\frac{1}{10}\) hectare. ward 2 marks) easured the diameter of the wheel using ape measure and calculated the rounference award 1 mark for measuring, 1 mark for diculating and 1 mark for accuracy) etermined the number of revolutions, N, etermined the number of revolutions, N | • Seed metering device ward 1 mark each) urried out lubrication on the sprockets d bearings. Award 1 mark for identification of rockets, bearings and appropriate use greasing gun) ghtened loose bolts and nuts ward 1 mark each) etermined the planter width, W ward 2 marks) easured the length of a strip necessary cover \frac{1}{10} hectare. ward 2 marks) easured the diameter of the wheel using ape measure and calculated the rounference award 1 mark for measuring, 1 mark for loculating and 1 mark for accuracy) etermined the number of revolutions, N, e ground wheel has to make to cover e length, L. ward 1 mark for calculation and 1 ark for accuracy) itsed the seed drill in such a way that 2 |

| | (4 11 10 | | |
|-----|--|--------|--|
| | (Award 1 mark for correct use of tools | | |
| | and 1 mark for raising the seed drill) | | |
| 11. | Made a mark on the ground wheel and a | 2 | |
| | corresponding mark at a convenient place | | |
| | on the body of the drill to help in | | |
| | counting the revolutions of the drive | | |
| | wheel. | | |
| | (Award 1 mark for each) | | |
| 12. | Put selected seeds in the hopper and | 2 | |
| | placed containers to collect seeds being | | |
| | discharged | | |
| | (Award 1 mark each) | | |
| 13. | Rotated the wheel and counted N | 2 | |
| | revolutions | at.cov | |
| | (Award 1 mark each) | SYNB | |
| 14. | Weighed the quantity of seeds dropped | 1 | |
| | from seed drill | | |
| | (Award 1 mark) | | |
| 15. | Calculated the seed rate in kg/ha. | 3 | |
| | (Award 1 mark for each step) | | |
| 16. | Wrote two recommendations of | 2 | |
| | necessary adjustments for the desired | | |
| | seed rate. | | |
| | (Award 1 mark for each) | | |
| 17. | Observed safety precautions | 2 | |
| | (Award 2 marks) | | |
| 18. | Cleaned the working area, tools and | 2 | |
| | equipment | | |
| | (Award 2 marks) | | |
| | Total marks | 40 | |
| | | | |

| ASSESSMENT OUTCOME | | | | |
|---|-----------------|-------------------|--|--|
| The candidate was found to be: | | | | |
| Competent (Please tick as appropriate) | | Not yet Competent | | |
| (The candidate is competent if the candid | late obtains at | least 50%) | | |
| Feedback from the Candidate: | | | | |
| Feedback to the Candidate: | | | | |
| Candidate Signature | easylyet.com | Date: | | |
| Assessor's Signature | | Date | | |
| | | | | |