



## Advanced Equipment Operator Training: Tractor, Combine, Sprayer & Planter

**PURPOSE:**

The purpose of this course is to equip the learner with the knowledge and skills to effectively operate large Agri-machinery such as large tractors, self-propelled sprayers, combines and planters.

**TARGET MARKET:**

Persons interested in working in the USA, current farmers in South Africa and Peritum Alumni

**MODULES:**

- 1. Receiver and display
- 2. Agri Technology and Precision Farming
- 3. Operate a large Tractor
- 4. Combine operations
- 5. Self-propelled sprayer
- 6. Planter operations
- 7. The Operations Centre set-up

**DURATION:**

5 days

**METHODOLOGY:**

- 1. Outcome-based
- 2. Integrated practice and theory
- 3. Skills practice

**ASSESSMENT:**

Theoretical assessment  
Log-sheet based practical assessment

**COST:**

R10 000 + R1 500 (VAT) = R11 500

**BOOK YOUR SEAT:**

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## MODULE 1: RECEIVER AND DISPLAY

- The four key components of the John Deere precision solutions.
- Deere precision solutions.
- Receiver functionalities and benefits.
- Standard and advanced calibration.
- Receiver set-up.
- RTK set-up.

## MODULE 2: AGRI TECHNOLOGY AND PRECISION FARMING

- Fields and boundaries.
- Machine sync.
- In-field data sharing.
- Guidance control functionalities and benefits.
- AutoTrac™ and status pie.
- Turn Automation.
- iTEC Pro as an alternative to Turn Automation.
- AutoPath™.

## MODULE 3: OPERATE A LARGE TRACTOR

- Tractor component functionalities and features.
- Controls and instruments.
- Cab features and display.
- Screen layout and functionalities.
- GPS functionalities and terminology.
- Daily service check before starting.
- Startup procedures and checks.
- General driving guidelines.
- Auto steer (A and AB curve).
- Hitching implements.
- Tractor and trailer.
- Apply basic maintenance procedures: 19 checks to complete.
- Adhering to the service requirement of your tractor.

## MODULE 4: COMBINE OPERATIONS

- Combine component functionalities and features.
- Screen layout and functionalities.
- GPS functionalities and terminology.
- Startup procedures and checks.
- Auto steer (A and AB curve).
- Best harvesting capabilities (inspect- corrections to settings).
- Different cones/heads.
- Head adjustments for different cultivars.
- Safe hitching of heads.

## MODULE 5: SELF-PROPELLED SPRAYER

- Sprayer component functionalities and features.
- Screen layout and functionalities.
- GPS functionalities and terminology.
- Startup procedures and checks.
- Driving and auto steer of sprayer.
- Calibration.
- Boom operations.

## MODULE 6: PLANTER OPERATIONS

- Different types of planters (mechanized, finger and plate types).
- Different seed trays and their functionality.
- Component functionalities and features of a planter.
- Screen layout and functionalities.
- GPS Functionalities and terminology.
- Startup peocedures and checks.
- Auto steer.
- Planter operations, monitoring and adjustments.
- Crop estimates in planter calibration and crop estimation.
- Depth control.



## MODULE 7: THE OPERATION CENTRE SET-UP

- Benefits of the operation centre and functionalities.
- Setup your JD account and Ops centre.
- Work planning and monitoring via Ops centre.
- The Ops centre analysis functionalities.
- Display btightness settings and day/night mode.
- Data export and delete.
- Wireless data transfer.
- Diagnostics.

## FOR MORE INFORMATION:

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