



# MINISTRY OF AGRICULTURE AND IRRIGATION FGS

## Public–Private Partnership (PPP) TVET Training Program on Agricultural Mechanization in Somalia

*Building Human Capital for Agricultural Transformation in Somalia*

### Executive Summary

The Public–Private Partnership (PPP) TVET Training Program on Agricultural Mechanization was successfully implemented from May to October 2025 through collaboration between the Ministry of Agriculture and Irrigation of Somalia (MoAI) and Gaalooqe Agribusiness Enterprise.

The Training program addressed critical gaps in technical skills within the agricultural sector by equipping Somali youth with hands-on training in machinery operation, maintenance, and mechanization service delivery.

A total of 30 youth trainees (15 male and 15 female) successfully participated in the Training Program, demonstrating a strong commitment to gender inclusion and youth empowerment.

The program significantly contributed to strengthening human capacity, promoting employment opportunities, and supporting the broader national agenda of agricultural mechanization and modernization in Somalia.

### Background and Context

Agricultural mechanization in Somalia has remained limited, with farming systems largely dependent on manual labor and outdated machinery. This has constrained agricultural productivity, efficiency, and resilience, particularly in the face of climate variability and labor shortages. At the same time, there has been a significant shortage of trained technicians capable of operating, maintaining, and managing modern agricultural equipment.

Recognizing these challenges, the Ministry of Agriculture and Irrigation of Somalia (MoAI), in partnership with Gaalooqe Company, initiated a Public–Private Partnership (PPP)-based TVET training program to strengthen technical capacity, improve mechanization service delivery, and create employment opportunities for Somali youth, including both men and women.



As part of this effort, in March 2025, MoAI and Gaalooqe Agribusiness Enterprise LTD (National), in collaboration with CASE IH (Italy), signed a Memorandum of Understanding (MoU) to support agricultural mechanization technical training programs, promote technology transfer, field demonstrations, and exhibitions, and enhance access to modern machinery and technical expertise.








### Training Objectives

#### General Objective

The program aimed to strengthen technical and vocational skills in agricultural mechanization through a collaborative PPP approach.







## Specific Objectives

-  To build practical skills in tractor operation and machinery maintenance.
-  To promote hands-on learning and technical innovation.
-  To enhance employment and entrepreneurship opportunities for youth.
-  To strengthen collaboration between public and private sector actors.
-  To promote gender inclusion in agricultural mechanization training.




## Partnership Framework (PPP Model)

The program was implemented through a structured Public-Private Partnership model:

### Ministry of Agriculture and Irrigation (MoAI):

-  Provided overall leadership and coordination.
-  Facilitated trainee selection (ensuring gender balance: 15 male, 15 female).
-  Delivered theoretical lessons.
-  Ensured policy alignment and oversight.

## Gaalooge Agribusiness Enterprise






-  Delivered technical training and practical sessions.
-  Provided machinery, tools, and equipment.
-  Led field demonstrations and hands-on learning.

This partnership demonstrated the effectiveness of combining public sector coordination with private sector technical expertise.



## Training Program Implementation

The training program was delivered using a practical, hands-on approach and covered the following key areas:







-  To build practical skills in tractor operation and machinery maintenance.
-  Preventive maintenance and basic repair of machinery.
-  Use and adjustment of agricultural implements (ploughs, harrows, planters).
-  Mechanization service provision and business management.
-  Field-based demonstrations and practical exercises.

Participants (15 male and 15 female) engaged in both classroom instruction and intensive field training to ensure practical competency and inclusive participation.



## Key Results and Achievements

The Training program achieved significant:

-  30 youth trained (15 male, 15 female) in agricultural mechanization.
-  Improved technical capacity in machinery operation and maintenance.
-  Increased awareness of modern agricultural technologies.
-  Strengthened collaboration between MoAI and private sector actors.
-  Promoted women's participation in mechanization, a traditionally male-dominated sector.
-  Enhanced opportunities for employment and self-employment in mechanization services.

The Training program contributed to building a foundation for a skilled and inclusive workforce to support Somalia's mechanization agenda.

## Challenges

Despite its success, the program faced several challenges:

- Limited availability of training equipment and facilities.
- Lack of standardized national TVET curriculum for mechanization.
- Limited access to finance for trained graduates.
- Social and cultural barriers affecting women's participation in technical.

These challenges highlighted areas requiring further investment and policy support.



15<sup>Female</sup>



15<sup>Male</sup>



## Lessons Learned

The implementation of the program generated important lessons:






- PPP approach proved highly effective in delivering quality technical training and bridging capacity gaps.
- Hands-on practical training is essential for developing real technical competence.
- Private sector involvement improves training relevance and quality.
- Gender-inclusive training is achievable and impactful when intentionally designed.
- Post-training support is critical, including access to finance, tools, and employment pathways.
- Standardized certification and curriculum development are necessary.

These lessons provide valuable guidance for scaling up inclusive mechanization programs nationwide.



## Recommendations

Based on the experience of this program, the following actions are recommended:

-  Scale up PPP-based TVET mechanization programs nationwide.
-  Establish dedicated agricultural mechanization training centers.
-  Develop and implement national certification and training standards.
-  Strengthen linkages between training, finance, and employment.
-  Promote women and youth participation in mechanization services.

## Conclusion

The PPP TVET Training Program on Agricultural Mechanization demonstrated a successful and inclusive model for developing technical skills and supporting agricultural transformation in Somalia.

Through effective collaboration between MoAI and Gaalooqe, the program strengthened human capacity, promoted innovation, and created pathways for employment for both men and women.

Scaling up such initiatives will be critical to achieving a modern, productive, and resilient agricultural sector in Somalia.



**Department of Agriculture Technology  
and Innovation  
Ministry of Agriculture and Irrigation  
Federal Republic of Somalia**

 [mti.dept@moa.gov.so](mailto:mti.dept@moa.gov.so)

 <https://moa.gov.so>

 **507**