



**ASFAN**  
REALITY

**A Step Towards the Future of Agriculture**



# **Virtual Reality in Agriculture**



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# Virtual Reality in Agriculture

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## How Does Virtual Reality Transform the Way We Teach and Learn Agriculture?

Instead of relying on traditional field visits or textbook diagrams, Virtual Reality provides a fully interactive and immersive environment where students, farmers, and technicians can explore realistic agricultural scenarios. From installing drip irrigation systems to managing crops and understanding soil conditions, users gain hands-on experience in a safe and controlled virtual setting.



### Benefits of Virtual Reality in Agriculture

#### Accessibility

Enables learning anytime and anywhere



#### Hands-on Learning

Provides practical experience without physical fields



#### Resource Efficiency

Optimizes resource use and reduces costs



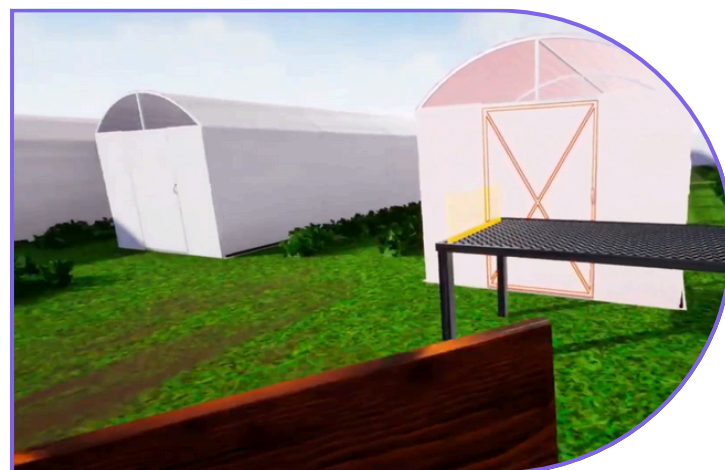
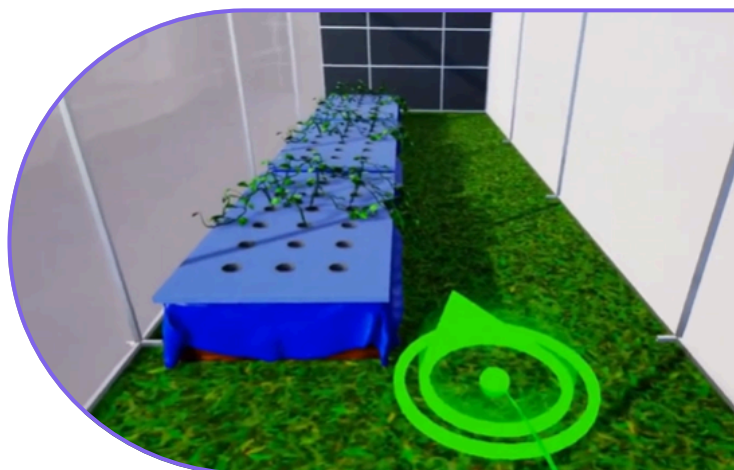
#### Risk-free Training

Allows practice without real-world risks



# Hydroponics and Greenhouses Installation

Explore the future of modern agriculture through a comprehensive experience combining hydroponics and greenhouse construction. In this experience, you will learn how to grow plants using a nutrient-rich water solution instead of traditional soil, significantly reducing water consumption while increasing productivity. Additionally, you will gain practical knowledge on designing and building greenhouses, preparing them to provide an ideal environment that protects plants from weather conditions and supports sustainable growth.



## What Will You Learn?

- How to establish a complete hydroponic system capable of supporting healthy plant growth.
- Techniques for adjusting the nutrient solution to achieve optimal results.
- Professional methods for constructing and preparing greenhouses to ensure ideal growing conditions.
- Resource-saving strategies while enhancing crop quality and efficiency.
- Analytical thinking to compare the advantages and disadvantages of hydroponics, traditional farming, and different types of greenhouses.



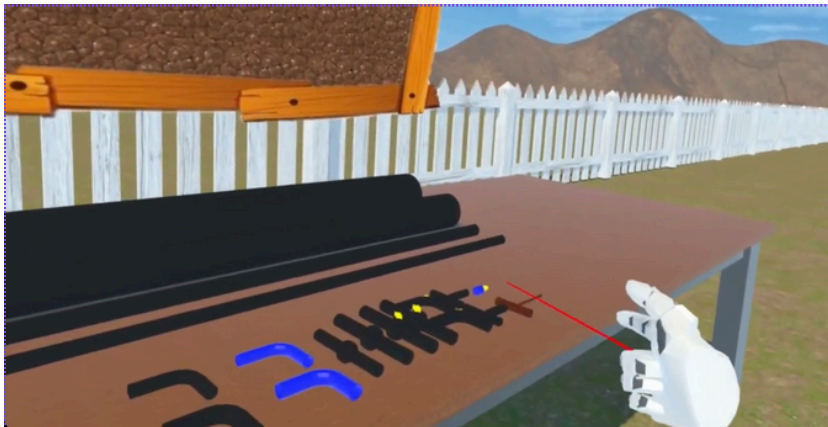
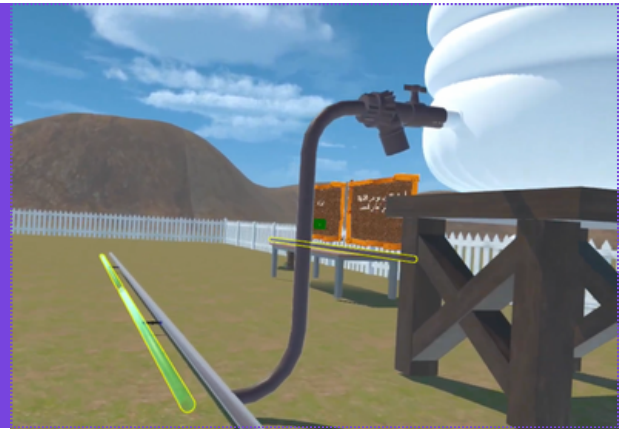
# Drip Irrigation

( 2 contents)

Learn the Most Efficient Way to Deliver Water Directly to Plant Roots. The Drip Irrigation Experience provides comprehensive knowledge on installing and maintaining this modern system, which conserves water and enhances production efficiency.

## What Will You Learn?

- Steps to install a complete irrigation network.
- Familiarity with the tools and components of the system.
- Techniques for inspecting and maintaining the system to prevent malfunctions.
- Methods for water conservation and achieving agricultural sustainability.



## Contents:

1. Drip Irrigation System Installation
2. Drip Irrigation Tools

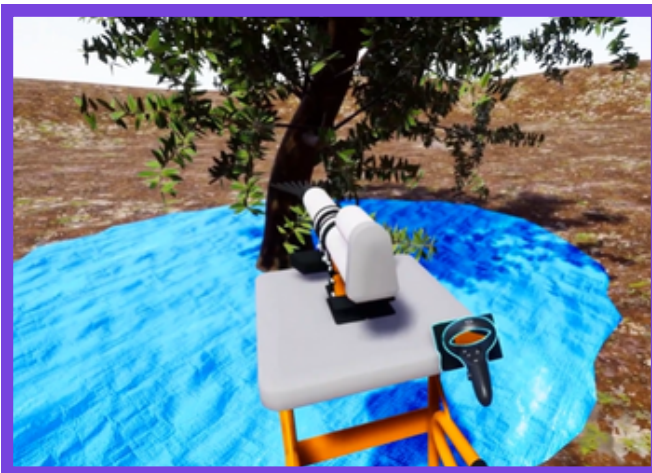


# VR In Olive Picking

In this Virtual Reality experience, you stand before a real olive tree within a realistic 3D virtual environment. You will operate a specialized agricultural robot for olive harvesting and closely follow its steps as it collects the fruits from the branches. The experience offers a firsthand look at how the robot works in practice, showcasing the modern harvesting mechanism that saves time and effort compared to traditional methods, while maintaining fruit quality and minimizing waste.

## What Will You Learn?

- The fundamental principles of operating agricultural robots.
- How to use technology to accelerate the harvesting process.
- Reducing human errors and increasing work efficiency.
- The differences between manual and automated harvesting in terms of cost and effort.



# Agricultural Tractors

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A comprehensive experience to learn everything about Agricultural Tractors, from inspection and maintenance to driving and operation. This experience provides a safe environment to practice the most challenging tractor tasks before heading out to the field.

## What Will You Learn?

- How to perform daily tractor inspections to ensure safety.
- Operating tractor implements and effectively using attachments.
- Adjusting and operating a fertilizer spreader for uniform distribution.
- Driving and maneuvering skills in a realistic training environment.
- Using agricultural harvesters for large-scale harvesting operations.

## Contents:

1. Tractor Links
2. Check-Up Routine on Tractors
3. Fertilizer Installation
4. Tractor Operator Training
5. Combine Harvester
6. Tractor Driving



# Beekeeping and Honey

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Virtual Reality in Beekeeping and Honey Production offers an innovative way to explore the world of bees and honey. Learners can enter a virtual hive, observe the bee life cycle, and understand the roles of the queen, workers, and drones.

Through realistic 3D visuals, they experience how bees work together to maintain their colony and produce honey, making complex processes easy to understand and engaging.

## Contents:

1. Bee Life Cycle
2. Honey Extraction
3. Honey Quality
4. Safety in Honey Extraction
5. Types of Bees

## What Will You Learn?

- The different stages of the bee life cycle.
- Safe and effective methods for honey extraction.
- How to distinguish between high-quality and low-quality honey.
- Safety procedures to protect beekeepers during work.
- Understanding the different types of bees and their roles within the hive.



# Grafting

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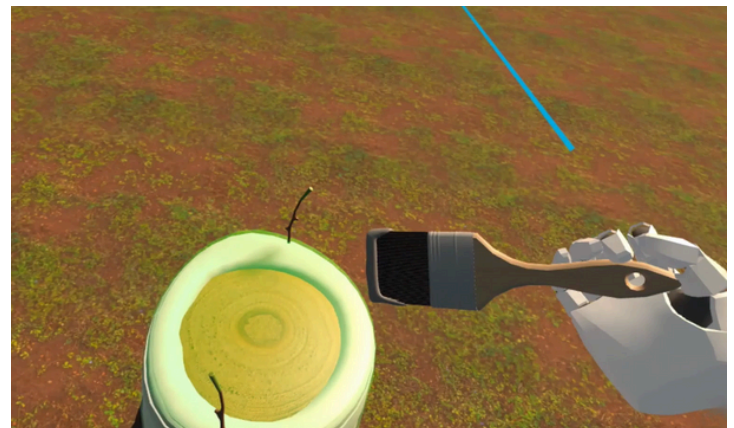
Grafting is one of the most important agricultural propagation techniques for improving yield and increasing plant resistance. In this Virtual Reality experience, you will observe the process hands-on: selecting rootstocks, preparing scions, and performing the grafting procedure with precision. This experience allows you to practice the skill manually as if you were holding the plant in front of you, helping you master precise and challenging steps in a safe and easily repeatable way.

## What Will You Learn?

- Precise procedural steps for each type of grafting.
- The tools used and how to handle them professionally.
- Increasing the success rate of grafting operations.
- Enhancing plant resistance and crop quality.
- Developing the skill to choose the appropriate method based on plant type.

## Contents:

1. Bridge Grafting
2. Side Grafting
3. Bark Grafting
4. Patch Grafting
5. Pen Grafting
6. T Budding Grafting
7. Whip & Tongue Grafting



## Why Choose ASFAN?

- One of the region's pioneers in VR training for electric vehicles
- Based in Jordan with full local support and Arabic/English content
- Proven track record of deploying high-quality technical training solutions across industries
- Flexible packages for institutions, companies, and individuals

## Get Started Today

For more information, demo scheduling, or consultation:



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**ASFAN – Building the Future of Technical Training through Immersive Virtual Reality Solutions**



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