



# Date Palm Cultivation and Date Production Training: Orchards, Pollination and Packing

22 – 26 November 2026

Riyadh - KAFD district five-star



## Date Palm Cultivation and Date Production Training: Orchards, Pollination and Packing

**Ref:** 1364\_23000 **Date:** 22 – 26 November 2026 **Location:** Riyadh - KAFD district five-star **Fees:** 20000 SAR

### Introduction:

Date Palm Cultivation and Date Production Training covers orchards, pollination and packing in a 5-day course for date farm, plantation and packing house teams, ending with a Date Orchard Calendar and Farm Business Plan. Farms lose yield and fruit grade when offshoots are planted carelessly, pollination is mistimed, bunches go unthinned, red palm weevil spreads unseen and harvested dates are stored poorly. Nominees already supervise palm blocks, irrigation or date handling and work through case studies built on farm records and packing data. CoreConcept Training Center delivers this date palm cultivation course.

### Course Objectives:

- Classify date palm cultivars and fruit stages to set harvest targets and product use for each orchard block
- Plan propagation from offshoots or tissue culture plantlets and lay out new orchards with planting spacing and male palm ratios
- Schedule palm irrigation and fertigation by palm age, season and soil conditions
- Organise pollination, bunch thinning, bending and bagging to protect fruit set, fruit size and grade
- Direct integrated management of red palm weevil and other palm pests at supervisory level, from early detection to removal of infested palms
- Run harvest, packing house, grading and cold storage operations and prepare a Date Orchard Calendar and Farm Business Plan

### Target Audience:

- Date farm and plantation management teams responsible for block yields, seasonal labour and orchard operations
  - Agricultural engineering teams responsible for orchard layout, irrigation and fertigation systems on palm farms
  - Field supervision teams responsible for pollination crews, bunch work and pest surveillance rounds
  - Packing house and date processing teams responsible for receiving, grading, packing and cold rooms
  - Agribusiness and investment teams responsible for date farm budgets, offtake and expansion plans
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## **Course Outline:**

### **Day 1: Date Palm Biology, Cultivars and the Farm Baseline**

- Date Palm Botany Covering Dioecy, Root System and Frond Growth
- Fruit Stage Sequence Across Kimri, Khalal, Rutab and Tamar
- Soft, Semi-Dry and Dry Cultivar Groups and Selection Criteria
- Climatic Requirements Including Heat Units, Humidity and Rain Risk
- Date Farm Baseline Survey of Blocks, Palm Ages and Water

### **Day 2: Propagation, Orchard Establishment, Irrigation and Palm Nutrition**

- Offshoot Selection, Detachment, Quarantine Checks and Nursery Rooting
- Tissue Culture Plantlets with Acclimatisation and True-to-Type Checks
- Orchard Layout Plan with Planting Spacing and Male Ratio
- Palm Water Requirement Scheduling for Basin, Bubbler and Drip
- Fertigation and Manuring Programme by Palm Age and Season

### **Day 3: Pollination, Bunch Management and Harvest Practice**

- Pollen Collection, Viability Testing and Storage for the Season
- Manual and Mechanical Pollination Methods with Timing Window Records
- Bunch Thinning by Bunch Removal and Strand Cutting
- Bunch Bending, Tying and Bagging Against Damage and Rain
- Harvest Timing by Fruit Stage with Picking Methods

### **Day 4: Palm Pest Risk, Packing House Operations and Date Products**

- Red Palm Weevil Detection with Acoustic Checks and Pheromone Traps
- Integrated Pest Management for Weevil, Dubas Bug and Mites
- Packing House Flow from Receiving and Disinfestation to Grading
- Date Hydration, Moisture Control, Packing Formats and Cold Storage
- Date Products Including Paste, Syrup and Value Chain Margins

### **Day 5: Case Study Work and the Date Orchard Calendar and Farm Business Plan**

- Case Date Farm Data Pack with Yields, Grades and Losses
  - FAO Date Palm Technical Calendar Adapted to the Case Farm
  - Pest Surveillance and Pollination Schedule for the Case Orchard
  - Date Farm Cost of Production and Cash Flow Model
  - Date Orchard Calendar and Farm Business Plan Completion and Review
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## **Skills You Will Gain:**

- Date Cultivar Assessment
- Offshoot and Plantlet Propagation
- Palm Irrigation Scheduling
- Pollination Management
- Bunch Management
- Palm Pest Surveillance
- Date Grading and Packing
- Date Farm Business Planning

## **Why Attend This Course:**

- Deliver a Date Orchard Calendar and Farm Business Plan for a case date farm to the farm director and the finance or investment lead
- Decide harvest stage, picking rounds and grade allocation for each cultivar using fruit stage and moisture evidence
- Avoid weevil spread through unchecked offshoots, poor fruit set from late pollination and storage losses in the packing house
- Share pollination logs, bunch work checklists, pest trap records and grading sheets with field and packing house colleagues

## **Conclusion:**

Back at work, the participant gives the farm director and the finance or investment lead a Date Orchard Calendar and Farm Business Plan that sets monthly palm operations, pollination and bunch work windows, pest surveillance rounds, harvest and packing house capacity, and the cost and revenue outlook for the farm. Management uses it to approve labour, irrigation and cold storage budgets and to plan new plantings or offshoot sales. After the first season under the plan, the unit should review fruit set, grade-out, pest trap records and actual against planned margins.

## **Frequently Asked Questions FAQ:**

### **What should participants know before a date palm cultivation and date production course?**

Participants should already work on palm farms, in agricultural engineering or in date handling. No plant science degree is needed. Bringing block maps, yield records, irrigation schedules or packing house grade sheets helps participants apply the case work and the final plan to their own farm.

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## **How does date palm cultivation and date production training differ from a general smart farming or produce marketing course?**

It follows one crop from offshoot to packed carton: palm propagation, pollination, bunch work, palm pests, harvest stages and packing house practice. Smart farming courses focus on sensors and data across many crops, and produce marketing courses focus on buyers, channels and sales.

## **Why does pollination timing matter so much in date palm cultivation and date production?**

Female palms set fruit only when viable pollen reaches receptive flowers soon after the spathe opens. Late or weak pollination lowers fruit set and leaves unpollinated fruit that rarely reaches market grade, so pollen quality, crew scheduling and records shape the season's yield.

## **What do participants take back from the date palm cultivation and date production course?**

Participants take back a Date Orchard Calendar and Farm Business Plan for a case date farm, with monthly operations, pollination and bunch work windows, pest surveillance rounds, packing house capacity and a cost and cash flow model they can adapt to their own farm.

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