R&D Division
Course On:

VEGETABLE PRODUCTION IN PROTECTED ENVIRONMENT

October 6-30, 2013

MASHAV – Israel's Agency for International Development Cooperation
CINADCO – Center for International Agricultural Development Cooperation
ARO – Agricultural Research Organization, the Institute of Plant Science.

invites professionals to participate in the course on:

VEGETABLE PRODUCTION IN PROTECTED ENVIRONMENT
which will take place in CINADCO's Training Centre,
Volcani Agricultural Complex, Israel
October 6-30, 2013
About the course

Background
Vegetables growth under protected conditions has been developed in light of demand for out-of-season vegetables' growth, and also to achieve high quality yields unachievable under open field conditions.

The modern vegetable production industry requires the implication of the most up to date, relevant, knowledge. The input of various aspects like plant physiology, plant protection (entomology, pathology and virology), meteorology, soil sciences should be considered.

All year round production encounters favorable and unfavorable climate conditions such as extreme temperatures, high or low relative humidity, or salinity or water limitations. All these affect plant vegetative development, flowering, fertilization and fruit set, yields and quality of end product.

A good healthy seedling is a prerequisite for successful crop. Seed quality has a marked impact on seedling and plant performance.

Aims
To enrich the participants with the latest advances in vegetable production under protected environment that included the physiological and biological principles and factors involved in plant development and reproduction. The effect of environmental conditions (including abiotic stresses) on vegetable cultivation and learn how to use this knowledge for obtaining high yields with high quality vegetables.

Main Subjects
The course will cover various aspects of crop production, from seed to fruit, and from biological and technological aspects.

1. Seed production
2. Principles of vegetable seedling production (nurseries)
3. Vegetable grafting
4. Vegetable breeding
5. Cultivation procedures
6. Irrigation and fertilization
7. Fruit development
8. Use of plant growth regulators (plant hormones)
9. Plant protection - Pests - Biological and classical control
10. Plant protection - Diseases - Biological and classical control
11. Robotics and technologies
12. Structures and covers (Nets and plastics)
13. Greenhouse production and the environment
14. Postharvest, marketing and export.
15. Knowledge transfer chain - research - extension - experimental stations-farmers

The course will consist of three major components: 1. Frontal lectures from top experts in the field; 2. Tours and visits in advanced greenhouses sites; 3. Designing group projects by the participants

Qualifications
This course is designed for research and extension personnel in the produce industry, government or academic professionals interested in current advances in the vegetable production technologies.

It is particularly of interest to researchers and extension activities under the aegis of national or international organizations, institutions, universities, research institutes, civil society and the private sector. Course participants must have a relevant academic degree and at least three (3) years of practical work experience in related fields. A very good command of the English language is essential.
Application forms
Application forms and other information may be obtained at the nearest Israeli mission and at
Israel's Ministry of Foreign Affairs website: http://mashav.mfa.gov.il (in Contact Us → Information
and Registration), or at Volcani website at www.agri.gov.il (Administration → International R&D
Courses). Completed application forms, including the medical form should be sent to the Israeli
mission in your area and also faxed or e-mailed to CINADCO Training Center in Israel: Fax no:
+972 3 9485771 / e-mail: sigal@mon.gov.il.

MASHAV will award scholarships covering tuition fees, full board accommodation (two
participants share a room), basic medical insurance and transportation to and from the airport.
Scholarships do not include international airfare and per diem.

General Information

Location and accommodation
The course will be held at the Volcani Agricultural Complex, situated 10 km east of Tel Aviv,
Israel.

Transportation
Participants will be transported from and to Ben Gurion airport, without charge, by Tal Limousine
Company, which is located on the mezzanine level at the Arrivals Hall. Participants are requested
not to take any other transport company.

Clothing
The course will be held in the winter. Temperatures may vary between 10°C and 20°C with
probabilities of rainfall. It is therefore recommended to bring warm clothing, suitable footwear for
field trips and swimwear.

Insurance
Participants are medically insured by a health insurance policy. This policy does not cover the
treatment of chronic or serious diseases, dental care, eyeglasses, pregnancy and specific medication
taken by the participant on a regular basis. Participants are required to bring with them their usual
medication. No insurance of personal belongings like money, video cameras, laptops or jewelry will
be provided.

About MASHAV
Israel's Agency for International Development Cooperation (MASHAV) was founded in 1958 as
part of Israel's Ministry of Foreign Affairs. MASHAV is responsible for initiating and
implementing Israel's development cooperation programs worldwide. MASHAV aims at
transferring to developing countries the expertise and technologies that have assisted Israel on its
own path to development. Today, Israel cooperates with over 140 countries, providing training in
Israel and abroad, and operates on-site long-term demonstration projects. MASHAV is active in
fields ranging from agriculture to health and from community development to entrepreneurship.
http://mashav.mfa.gov.il

About CINADCO
The Center for International Agricultural Development Cooperation (CINADCO) is a part of the Israel
Ministry of Agriculture and Rural Development. Since 1958, CINADCO has been a pioneer of the
international agricultural training field.
activities consist of: International and country “tailor-made” courses in Israel, on-the-spot courses, long- and short-term projects and advisory missions. Israeli experts are also sent to different locations around the world to conduct projects and to share their expertise in various aspects of agricultural production, extension and project planning. http://www.cinadco.moag.gov.il cinadco

About ARO
The Agricultural Research Organization (ARO) is the research arm of the Ministry of Agriculture and Rural Development and is responsible for most of the agricultural research conducted in Israel. The scientists of the ARO collaborate with the regional R&D Stations and with the Agricultural Extension Service of the Ministry of Agriculture. Research at the ARO aims to improve existing agricultural production systems and introduce new products, processes and equipment on which Israel’s future agricultural efforts will be based. ARO website: http://www.agri.gov.il

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