



CASCAIS



ECOFARMS 4 PRISONS

Draft Curriculum



Draft Curriculum

1. Introduction

Introduction to Organic Farming

Concepts, Principles and Effects of Regenerative Agriculture

Differences between agricultural production modes (conventional, integrated protection, organic and others)

Sustainability: environmental, social and economic

Impact of endoclimatic changes

Video presentation with testimonials from employers and ex-convicts working in organic agriculture

2. Three Dimensions of Sustainable Agricultural Practices in Prisons

The Ecological Dimension

Design and management

- Environmental Impact: techniques for reducing the ecological footprint
- Location and size of the production structure
- Landscape and biodiversity
- What to produce? How to produce?
- Define objectives and strategy
- Tools and equipment
- Resources (human and financial)

Soil

- Physical and chemical properties of the soil
- Soil pollution
- Soil improvements and alterations (soil conversion)
- Different soil preparation practices
- Consequences of soil mobilization
- Good agricultural practices
- Assessment of indicators in soil management
- Principles of good practice in soil management

– Soil sustainability

Nutrient cycle/soil microbiology

- Fertility
- Composting and Vermicomposting
- Green manure
- Dead mulch
- Biofertilizers
- Fertilizer typology

Cover crops

- Crops and seeds and propagation material
- Harvest planning
- Principles of Crop rotation
- Mixed cropping
- Traditional vegetable varieties
- Sowing and seedling production
- Marketing

Animal production

- Native breeds
- Quality animal nutrition and mandatory GMO-free
- Animal welfare stable conditions, management and health care
- Benefits of Grazing

Production of perennial crops

- vineyard
- olive grove
- Fruit trees

Sustainable agricultural practices

- Irrigation

- The importance of water

How to manage water sustainability

- Fertilization e Fertirega

- Biological control of pests and diseases

Other dimensions of crop protection such as genetic, cultural, biotechnical and chemical

- Herb management

Biocomposting

Harvest and Storage

- Conservation (cold cameras)

- Quality control

- Calibration

- Packaging

The Social Dimension

Health and Safety at work

Food health and safety

Potential benefits of social agriculture

Impact of benefits: Social sustainability and institutional links

Increased transversal skills and in the area of organic agriculture

Benefits to the prison population in terms of learning, health and well-being

Job opportunities

The Economic Dimension

Certification process (typologies)

Valuation of products and by-products

Marketing and entrepreneurship

The importance of the brand - Creation of a "social seal"

Markets and promotion

Export

3. From theory to practice

Concept of production structure

How to evaluate a production structure

Starting point definition

Measures to be implemented to improve agricultural practices

Disseminate technical-scientific knowledge