

## PROFESSIONAL TRAINING PROGRAM

### « REDOX POTENTIAL AND PH UNDERSTAND THEIR INFLUENCE ON THE SOIL-PLANT RELATIONSHIP TO BETTER DEVELOP AGROECOLOGICAL PRACTICES »

*This programme can also be consulted directly on the TERREOM website at:*

<https://www.terreom.fr/en/formation-potentiel-redox-ph>



#### CONTEXT

The **relationship between the plant and the soil is permanent during the plant's development cycle**. For 10 years, the work of Olivier HUSSON, CIRAD researcher, has provided a **new vision of the influence of pH and redox potential on this relationship**. In posteriori, it appears that this parameter **intervenes at all levels of the functioning of the ecosystem**, confirming the vision of Albert SZENT-GYORGYI according to which «life is a small current maintained by the sun».

The training aims, firstly, to **provide a basic knowledge for a good understanding of pH and redox potential**. Then, it will be shown successively how it intervenes in the **growth of the plant**, in the **good balance of the soil** and in the **mechanism of bioaggression**. Then, the **impact of agricultural practices** on the pH-redox balance will be discussed. In conclusion, all this information will enable the implementation of an **action plan that includes all the good practices** that are favourable to a good balance between the soil and the plant.

Afterwards, this training should enable the learner to evolve towards the implementation of agro-ecological practices and to reduce the use of inputs (fertilizers, phytosanitary products in particular), while developing the performance of the cropping system.



## OBJECTIVES



### UNDERSTAND

basic knowledge of pH and redox potential



### KNOW

how pH and redox potential affect plant development and soil balance



### KNOW

the relationship between pH, redox potential, plant health and bioaggression for better protection



### CONTROL

the effect of agricultural practices on the right balance between soil and plant



### KNOW HOW TO MEASURE

soil and plant pH and redox potential



### SET UP

agro-ecological practices that favour the balance between plant and soil



## PUBLIC CONCERNED



Farmer  
Collaborating spouse  
Joint contributor  
Family helper



Anyone in the process of setting up



## PREREQUISITES

- To have completed a general BAC or an agriculture BAC PRO or to have professional experience in the agricultural sector (as an agricultural worker).

OR

- To have completed the training course " Evolve to agroecology to improve technical and agronomical performances.



## ACCESSIBILITY

If you have a physical disability, please let us know. We will then make the necessary arrangements to enable you to take full advantage of the training.



*Suitable for people with a mobility impairment*



*Suitable for people with a hearing impairment*



*Suitable for people with a speech impairment*



*Suitable only for the visually impaired persons*



## ORGANIZATIONAL CONDITIONS



7 hours



9:00 a.m. to 12:30 p.m. and 2:00 p.m. to 5:30 p.m.



4 minimum – 15 maximum



## « NEAR YOU » TRAINING

In the case of a "near you" training, the minimum number of participants may be adjusted to take into account the distance from our headquarter.



## EDUCATIONAL RESOURCES



Classroom training



Use of a video-projector and a paperboard



A permanent internet access to the slideshow and training course folder will be provided to each participant at the start of the course



Interactive exchanges with the trainees



Co-construction with the trainees of a positive agroecological action plan



## TECHNICAL RESOURCES



Room equipped with a video-projector and a projection screen



Use a video slideshow and a flipchart



Use of educational sheets (soil observation sheets, glossary of understanding soil analysis)



## TRAINING MANAGER

**Raphaël MARTIAL**

*Agricultural engineer (ENITA BORDEAUX) and former adviser to the Landes Chamber of Agriculture  
More than 20 years of experience in the agricultural sector*





## TRAINING PLAN

### I. Master the basic knowledge about redox potential and pH

### II. Redox potential and pH in the soil-plant relationship

### III. Measures and positive agro-ecological practices

- Soil, pH and redox potential
  - Plant, pH and redox potential
  - Plant health, pH, redox et bioaggression
- Redox potential, pH and measuring devices
  - Positive agroecological practices and action plan



## MONITORING AND EVALUATION



Signing of an attendance sheet at the beginning of each half-day



At the end of the training, a certificate will be given to each participant



End of course questionnaire completed by each trainee to check understanding and good acquisition of the different topics



## TRAINING PRICE



### Inter-company training

210 € including taxes

(individual price)



### Intra-company training

1800 € including taxes  
(excluding travel expenses)

(group price)



### Delivery in a training centre

800 € including taxes

(excluding travel expenses)

## Funding is available!

*Click on the following link to learn more*

<https://www.terreom.fr/en/formations-financement>



## I AM INTERESTED IN THIS TRAINING

I REGISTER BY CLICKING ON THE LINK OPPOSITE

<https://www.terreom.fr/en/inscription-potentiel-redox-ph>