

Permaculture Training

Syntropic Agroforestry Design Course

Where &When?

July 11-15, 2022

Nyota's Organic Green Garden

Awendo/Lwala

(25 min drive from Migori Town)

What will you do?

5 days full of

- Connecting with nature, yourself & like-minded people
- Acquiring a life changing life skill on Syntropic Agroforestry & Ecological Restoration
- Breath-work & meditation
- Active learning through hands-on activities
- Eating amazing & nutritious food

- **What will you learn?**

Training Objective: Integrating Syntropic Agroforestry & Ecological Restoration in
Permaculture

What Will Participants Learn On the Course?

- Introduction to Permaculture
- Permaculture Principles
- Relation between Permaculture and Syntropic Agroforestry
- The history and principles of syntropic agroforestry;
- How to implement and manage syntropic agroforestry systems;

- How to harmonize these systems with nature's patterns (sun, wind, topography, local flora, etc.);
- How to choose appropriate plant consortium to each stage and soil condition of the system, based on the natural succession and stratification;
- How to choose and plan the production of value added produce;
- Strata: How plants behave in their environment. Considering the quantity and quality of light that the plants need to be healthy;
- Natural succession: How the system develops through succeeding plants, and how long it takes them to reach their full life cycle or how long it takes until they reach maturity in their stratum;
- Mulching: The importance of keeping the soil covered with organic matter and how to plant a system whilst always keeping the soil covered;
- Planting: practical implementation of planting planning on the field.
- How to make BOKASHI

Training Course Units

Day 1 – Introduction To Permaculture :- This introductory course covers the Ethics and Principles of Permaculture Design and provides several ideas you can experiment with immediately in your home and on your land.

The Introduction to Permaculture includes:

- Introduction: What is Permaculture?
- Permaculture Principles
- Ethics of Permaculture Design
- Natural Systems Design
- Making of Bokashi-Practical 1

Day 2- Connecting Permaculture and syntropic agroforestry:- Introduction to syntropic agroforestry; soil production processes in nature , Entropic x Syntropic Processes. – The organization of these processes by nature, and it's the way create a forest. – From rock to soil: how soil and soil horizons form, and the role of life in this process; – The path of nutrients: organic matter or the sea; – The organic matter in agriculture; – The importance of disturbance, in the forest and in agriculture.

Day 3 – Natural Succession & Stratification – Systems of colonization, accumulation and abundance; – Vector quality and quantity of consolidated life; – Stratification: set formed by position in succession + stratum (need for light) + size (height) – Application of Succession & Stratification in agriculture, from placentas to climax

Day 4 – Ecological Restoration:-Ecological interactions & Eco-physiological functions – Pollination and seed dispersal; – Co-evolution of species and ecosystems – Elements of disturbance – Department of life’s process optimization (pests and diseases)

Day 5 – Permaculture and Sustainability –The social enterprise approach.

Permaculture Design elements – Practical design exercise

Looking to deeply reconnect with nature?

We are extremely excited to introduce you to our course at Nyota's Organic Green Garden . Building a learning-hub to provide tools, knowledge and experience for your regenerative journey is a very important part of our mission. Syntropic Agriculture is where it all started for this project. After Working with community for over 10 years, Caleb was inspired to establish the best food forest in Kenya, see the video [Life with Syntropic food forest](#), Caleb was inspired to change his life and apply these principles to disrupt our foodsystems. Diving into the principles, methods and practicalities of Syntropic Agroforestry together on our farm is a dream comes true! Caleb decided to bring a team of Permaculture expert to transfer this life changing Syntropic Agroforestry knowledge to small scale farmers who are most vulnerable to impact of climate change and also we work with student, teachers and opinion leaders as change makers (behavior change strategy) through training and practical demonstration.

Another amazing Trainer and mentor is **Mr. Roland Van Reenen**, he is a 58 years old, globally travelled Consultant for regenerative social and Land based Ecosystem. He is campaigner for syntropic agroforestry ,He is totally convinced that food forestry as developed as syntropic agroforestry will solve most of our fundamental global issues on household food security and climate change crisis. He has a number of podcast channel “[The Forest Farmer](#)”

This Course is created for the serious land restorations, farmer and people who are passionate about transforming the food growing system for sustainability and food security. In 5 days of intensive Boot-camp training and on-site case study, you’ll be guided through the most

essential steps in creating the best Syntropic Agroforestry design with a perennial crop based regenerative agricultural design mix. With the stunning context of the sub Saharan climate, we will work as a team to gather essential site data, understand the local weather pattern, understand local economy, evaluate tree cropping potential, and do real work implementing syntropic agroforestry plantings on the land. Our experienced instructors, Caleb Omollo, Steven Otieno and Roland Van Reenen will guide you with extensive knowledge from the worlds of permaculture, ecosystem restoration and agro-ecology.

We will cover many essential skills to get you started designing and building diverse and resilient agroforestry systems **in any climate zone**, including:

- Defining your holistic context
- Soil testing and plant observation as indicators of ecological health
- Plant identification
- Collecting seeds & plant propagation material
- Making seed mixes and propagation boxes
- Understanding species succession
- Hands on planting of syntropic cycles
- Selecting plants for context, maintenance & profit
- Installation of syntropic agroforestry rows
- Understanding management of the micro-organism
- Basics of tree pruning
- Understanding compost, bio-fertilizers, and natural pest management

Though we'll cover many intermediate and advanced topics **you don't need any prior knowledge or experience to join the course.** All of the information throughout the week is **easily accessible to beginners** and you'll have close guidance along the way.

This is a very hands-on workshop. Outdoor activities will take place, rain or shine, so come prepared for a full immersion experience. Because of COVID-19 restrictions, this course will take place with a small group (< 25 students/Farmers) of people to ensure the optimal learning experience and comply with all health and safety measures. This means that spaces are strictly limited, so do not wait to reserve your spot!

FACILITATORS

Caleb Omollo and Roland Van Reenen



Roland van Reenen

Roland is a designer, Educator and Consultant for regenerative social and Land based Ecosystem. Born in 1964 in the Netherlands Roland always had a curiosity for nature and cultural diversity. He is a certified teacher for primary; In 1998 he started a career in the organic food industry as the manager of what became in 2000 the very first organic supermarket in the Netherlands. Beside this work he studied the science of ayurveda and different other natural healing techniques. In 2015, he moved to Curacao in the Caribbean with a solid mission in his mind: to research how Permaculture could make a difference in a drought stricken deforested area. With zero budgets he established a food forest around his house and started to give workshops. In the same time he started a weekly organic food subscription for about 80 subscribers bringing organic food direct from the farmer to the consumer. In 2019, also he has been asked by the government to become a mentor for the Regenerative Organic Agriculture Program provided by the Maharishi University in Iowa. In June, he started a function as a mentor for courses in hydroponics presented by the University of the West Indies in Trinidad.



CALEB OMOLLO:

We have been inspired by **Caleb Omollo** since the beginning of our journey to regenerate our environment, and his driven personality to make the world a better place has really touched us. Today Caleb is not only a renowned trainer, a friend of nature but also our mentor of Climate conscious Farmers and individuals in East Africa.

Caleb Omollo is the founder and Director at Sustainable Village Resources (SVR). A food forest Advocate and Permaculture trainer with over 10 years experience in Permaculture Design projects.

He holds Bachelor of Science degree from State University of New York at New Paltz New York from 1980 to 1983. Worked for Developmental Resources cooperation from 1984 to 2008. In 2010 to present works as consultant for many organizations training permaculture and Regenerative farming in Kenya and East Africa

Facilities

The course will be hosted by Nyota e.V. for Children in Africa, at Nyota's Organic Green Garden in Awendo/Lwala. We will include the possibility to camp on-site with your own tent / campervan, and is including all meals, snacks, water, tea & coffee.

If you prefer to stay in an AirBnB, please let us know to help you plan for one at an affordable rate

Compensation

We are able to provide the 5-day long course including activities, food and campsite facilities for a contribution of KES 25,000 (\$250) per person.

If the course has to be canceled you will be refunded or credited for another date, the choice is up to you. To confirm your registration, a 50% of the total amount needs to be paid. The full amount has to be paid 1 week before the course.

If you pay the full amount before 11th of July 2022, the price is KES 23,000 (€230). If you need to cancel the course due to covid-19 related causes, you will be given a credit for another course.

Covid-19

Measures & conditions

We are continually following government guidelines to assess how we can safely deliver our course. If the situation changes and the course has to be canceled, we will refund or reschedule participants.

During the course site is well sanitized, physical distance can always be maintained and as much time as possible will be spent outdoors. Upon arrival, all participants will be asked to fill in a covid-19 screening form to assess safety and vulnerability; we reserve the right to ask someone not to attend if they are considered a risk to other participants

Training Time table

Days	8.00-9.00am	9.00-10.30am	10.30-11 am	11.00am-12.00 pm	12.00-1pm	1pm-2pm	2pm-4pm	4pm-4.30
Monday 11 th	Participant introduction	Introduction to Permaculture	Break	Permaculture Principles and Ethics	Natural Systems and permaculture Design	Lunch Break	Making of Bokashi-Practical	Tea Break
Tuesday 12	Recap	Introduction to syntropic agroforestry	Break	soil production processes in nature	Entropic Syntropic Processes	Lunch Break	Practical's syntropic agroforestry	Tea Break
Wednesday 13	Recap	Natural Succession & Stratification	Break	Application of Succession & Stratification in agriculture	Application of Succession & Stratification in agriculture	Lunch Break	Practical's syntropic agroforestry	Tea break
Thursday 14	Recap	Introduction to Ecological Restoration	Break	Ecological interactions & Eco-physiological functions	Practical's syntropic agroforestry	Lunch Break	Practical's syntropic agroforestry	Tea break
Friday 15	Recap	Permaculture and Sustainability	Break	Design plan for food forest	Practical's syntropic agroforestry	Lunch Break	Closing session	Departure