



Global Ecobrick
Alliance

Earth & Ecobrick Building Training of Trainers

A theory and hands-on program that will train a crew of 20-30 builders in the principles and techniques of **Ecobrick Earth Building**. This five day workshop will give participants the knowlege, skills, best practices, and leadership experience they need to lead this workshop on their own as GEA certified Earth & Ecobrick Builders.





Build Green and Beautiful



Ecobricks are a powerful grassroots solution to plastic. Earth building is a powerful grassroots solution to structure and shelter. The techniques that you will learn to build a simple bench, will be the same you use to build the most beautiful home! Like ecobricks, there is no need for expensive outside materials - Earth Building is all about using local, organic, resources. Like ecobricks, Earth Building works through mandalic collaboration - the coming together of friends and community to manifest. Men, women, young and old are invited to join our network of GEA certified Ecobrick Earth Builders.

What is Earth Building?

'Earth building', 'cob', 'wattle-and-daub', and 'adobe', are all words for the same thing: ancient building traditions using local earth and organic materials. Learning from our ancestors' tried and tested traditions we can build everything from benches, to gardens and structures using local and organic materials. By incorporating ecobricks, bottles and modern innovations we can build practical beautiful, human and Earth friendly creations.





Start a Green Building Revolution



Upon completion of the course, Earth Builder Trainers are set to lead their own trainings. They become a certified member of our trainer directory and put on our Ecobricks.org trainer map.

The aim of our *Earth and Ecobrick Building Training of Trainer* program is no less than to ignite a green building revolution in your area.

Using the principles of mandalic collaboration, trainers who complete the training, will then be ready to lead this very same training in their communities. The five day program is open to up thirty main participants, and the last three days are open to 50-100 volunteers. During the first few days the participants will learn the core techniques and principles both through classroom discussion and hands on work. During the last two days, they will lead the volunteers in the same training process, and together we'll build and complete an Earth and Ecobrick project.

Our five day program is ideal for regions where ecobricks have already spread widely and where there is an abundance of avid ecobrickers and thousands of ecobricks. The program focuses on assembling a team of Earth Builders who can return to their community groups, schools, NGOs and companies, and put to use the hundreds of ecobricks that they have access to.

The program combines theory and practice in the planning, making and realization of a cob and bottle construction. Participants will leave with their hands and clothes dirty, and their minds and imaginations opened to the exciting building possibilities that await them at home. They will leave skilled, confident and certified to lead their own trainings and builds back home.



Earth building techniques work just as well with glass bottles as ecobricks.



A Training & A Project

The program is both a training and a building project: The best way to learn earth building is to get your hands dirty, while the best way to learn how to lead a building project, is to lead one!

Thus, we will together see a project through, start to finish. Each participant will experience being a collaborator and a project leader. Each day will begin with theory, and conclude with down and dirty practice!

By necessity, the project must be small enough that it can be completed in five days. The training will cover four main areas:

- 1. Mandalic Collaboration:** The principles behind the collaboration model of earth building and ecobricks.
- 2. The Ecobrick Essentials** A review of the core techniques and theories behind ecobricking.
- 3. Principles of Earth Building** We'll go over the essential principles and benefits of cob building.
- 4. Project Design and Preparation:** Together we'll design and prepare the project of your choice.
- 5. Hands on Building** We'll build a cob and ecobrick project together from start to finish
- 6. Leading an Earth Collaboration** Participants will learn how to lead and orchestrate a build. Each participant will present to and lead a group of volunteers, then receive feedback from the trainers and their peers.



Jane Liwang started by building a bench from bottles and earth, then she rebuilt her whole house! See the documentary on ecobricking and cob in the Northern Philippines.



Need something built?

The program is an opportunity to complete a project supervised and designed by our veteran GEA bottle builders!



25 Trainees – 200 Collaborators!



Ecobrick Earth Building works on mandalic principles of collaboration. Every task in the process is simple and accessible to children, men and women--making it simple and clear how to join the collaboration. From mixing clay by foot, to making balls of cob, to picking up stones, it makes it easy to involve dozens to hundreds of people in a build.



Applied Mandalic Collaboration

Ecobrick Earth Building is fundamentally different from traditional industrial building. In Industrial construction projects, a handful of experts lead the build - special skills are required for all the components of the work. In contrast, our Ecobrick Earth Building methodology is fundamentally mandalic. In other words, the process is designed so that each element of construction is simple enough to be done by a child. In this way students and community members can help build the playgrounds and gardens and even homes that will be their own. The process is a life-changing experience of inter-generational collaboration. The result is a construction that everyone takes deep pride and ownership in.

During the workshop, participants will learn the art of mandalic collaboration. We thus encourage you to involve the participation of schools and other large groups during days 3, 4 and 5. Providing there is enough physical space around the construction for everyone, hundreds of volunteers can be accommodated and put to work. The workshop trainees will then each have the important experience of orchestrating and leading a large mandalic collaboration.

GEA earth building techniques draw from the ancient and modern sources - from cob and adobe traditions to the modern 'EarthShip' and bottle building movements. We focus on Tiny Projects that can easily and inexpensively be replicated, yet that contain the all core concepts and principles for full structural builds. In this way the building of a simple cob and bottle bench will point the way to building a full wall or structure.



Our Resources, Your Resources

The Ecobrick Earth Building methodology has been crafted over almost a decade of trial and error. Trainers will have full access to our videos, PDFs and app resources to facilitate the dissemination of best practices and core principles.

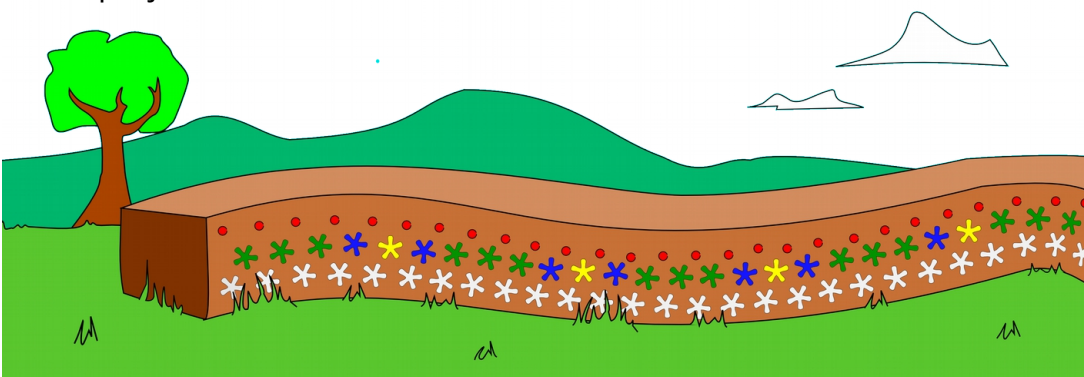
During the training we will also lead trainees through our Vision Ecobrick Construction guide, page by page. We'll also introduce them to our *The Vision Ecobrick Guide*, and the presentation *Plastic, The Environment and Ecobricks*. These resources are the backbone of the training curriculum and ensure that the fundamental principles of Earth Building and Ecobrick building are picked up by all.

Also during the training, an evening session of Ecobricking will be facilitated by a GEA Trainer. Trainees who have not yet learned the proper ecobricking technique will have a chance to learn first hand.

Trainees will also learn how to use the GoBrik app to manage their community's ecobricks and mobilize a community project.



Our GoBrik App helps trainers to mobilize ecobricks for Earth Building projects.





Sessions & Curriculum

Day 1

- Introductions
- Introduction to Mandalic Collaboration
- Presentation by trainers: Earth & Ecobricks: Building Your Green Dream
- Soil testing of the earth samples from all the participants' communities
- We will review the construction site and prepare for construction.

Day 2

- Coffee & Theory: A detailed review of Earth Building
- Down and dirty: We will complete the project's foundation.
- Down and dirty: We prepare the cob, ecobricks and bottles.

Day 3

- Coffee and Theory: Stories and discussion
- Down and dirty: We will complete one full segment of the build
- Artistic: We will lay the out render and tiles on the first segment
- Coffee and Discussion: Participants come up with a build idea for their community

Day 4

- Welcome: The volunteers arrive. The trainers welcome and we divide into groups
- Practice: Trainees conduct the Earth and Ecobricks presentation to volunteers
- Down and Dirty: We all go outside and begin working on the build in teams.
- Dinner: Trainee dinner together, afterwards circle discussion on the experience.

Day 5

- Coffee and Discussion: Trainees organize the day's work schedule.
- Down and Dirty: Volunteers arrive and we complete the build
- Group discussion: Volunteers and trainers have a chance to discuss the experience
- Certificates awarded to trainers

Completion

By the nature of the training, it will be ideal to not complete the project fully in order to give maximum building experience to all involved. The trainers will be on hand the sixth day for a final inspection and guide your community team on the completion of the project. Volunteers and trainees may opt to stay to assist the full completion.



Participants, Preparation & Costs

**Ecobrick Earth
Building ToT
Package Cost:
15,000,000 IDR**
+ travel and staying
expenses for two GEA
trainers

Payment to be made via paypal or Indonesian bank transfer directly to trainers to confirm course go-ahead. We'll then work with you to schedule your sessions.

Scheduling & Project Plan

Please contact us to arrange the scheduling of the event and to choose a suitable project. We suggest scheduling 2-3 months in advance to secure keen students and to prepare for the project.



To maximize the ability for us to complete the project, and learning experience, the following workshop and participant preparation is required.

Organizational Preparation

- 25-50 participants
- A venue near the project site with an indoor space for classroom sessions + projector, screen and sound system
- Site, earth, and project consultation with trainers
- Locations nearby where participants can stay overnight.

Site Preparation

- 500+ Ecobricks, 100+ glass bottles
- The project site needs to be chosen and cleared.
- One truck load of sand, and five bags of cement
- 5-6 Shovels, two wheel barrows, 3-5 large tarps,
- Three sacks of straw (or a comparable stringy organic binder)
- A source of local clay/earth
- A pit for soaking the clay (ideally some clay is pre-soaked)
- Three hand held glass cutters, candles and buckets.

Trainee Preparation

- Attendees must have ecobrick experience, i.e. completed an ecobrick starter workshop, ToT, or online training course
- Must bring a bag of clay/earth from their community for testing.
- Must bring one of their ecobricks and have a GoBrik account
- Trainees will be given a pre-course preparation kit.

Snacks and meals

- You will be responsible for providing the meals and snacks for the participants
- Please avoid using plastic to serve food. Reusable dishes that can be washed by participants is ideal.
- Fresh local food, filtered local water, and local fruits is ideal



Learn More

You can learn all the essentials about ecobricks and earth building at ecobricks.org/earth Sign up for free to gain access to our guidebooks and PDFs. Peruse our site to see the various ways ecobricks are being put to use by our trainers and their trainees around the world.

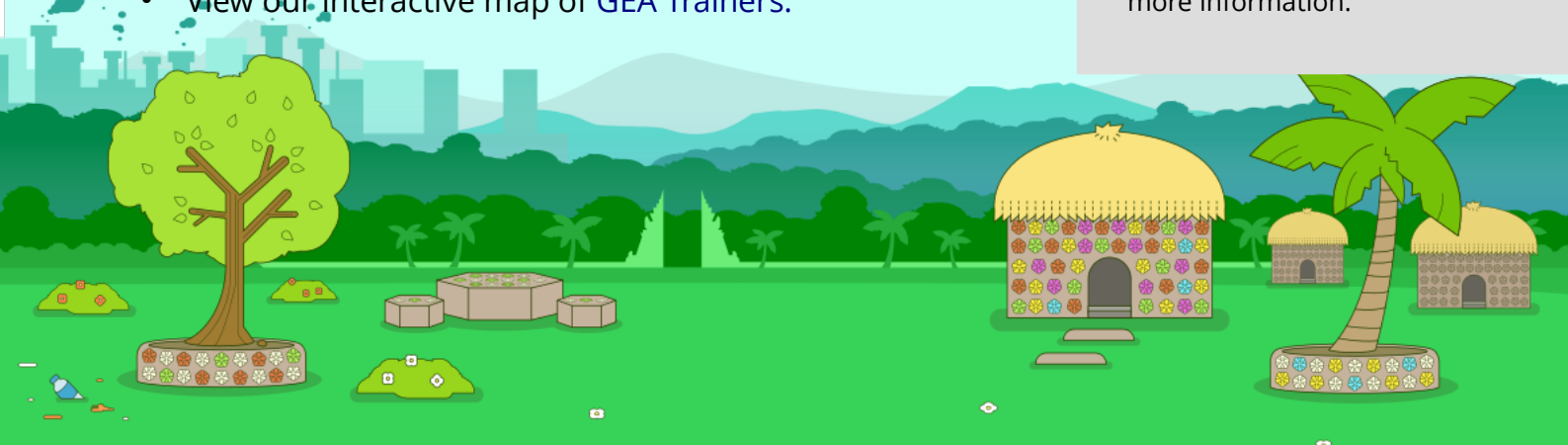
Further links and resources:

- Ecobricks and our trainers featured on [CNN Indonesia](#)
- View a 10 minute documentary on the [spread of ecobricks in the Northern Philippines](#)
- Read an article on the [spread of Ecobricks in Jogjakarta, Indonesia](#)
- View a short video of Russell showing how to make [ecobricks modules and use them](#)
- See the [Ecobricks.org](#) website
- View our [interactive map of GEA Trainers](#).



Other Trainings

We offer other training services. From one day Ecobrick Starter Workshops, Earth Building Workshops, to Media Events and lectures. See www.Ecobricks.org/trainings for more information.





Ecobricks.org
Global Ecobrick Alliance

Contact us to get started with your GEA Online Trainer Program at vision@ecobricks.org

See Ecobricks.org/trainings for our other program options:



We envision our homes, communities and companies transitioning from plastic towards ever more synced and greener harmony with Earth's cycles