

Collective Solutions
Workshop Syllabus
Solar Cookers: Design & Construction

Number of Participants: 10-20 people

Skill Level: Beginner

Total Workshop Length: 2-3 Days

Classroom: 1 Day

Project Installation: 1-2 Days

Required Materials (subject to vary):

Ply wood, aluminum foil, Plexiglas or real glass, nails, reflective metal (scrap preferred), saw, metal or wood for legs for box, cabinet knobs, tape (duct or other), wood glue, wood dowels (not required)

Participants: Note pad, pen, general construction tools (if they own them)

Host Organization: Classroom, lunch, above materials to be determined between CS and Host Organization

Average Cost of Project: \$350 - \$1,200 for medium / large scale, \$20-\$50 for individual cookers* (*All prices in US Dollars)

Host: Minimum 30% of cost to be paid for by host organization

Participant Cost: Free

Objective: To examine several ways to harness the sun's heat to cook food and purify water, and to construct a site-specific solar cooker for our host organization.

Workshop Description:

Constructing a solar cooker is an excellent project for people of all ability levels and is a prime example of the varied applications of solar energy. Collective Solutions will offer a basic training on the design and construction of various solar cooker models. In a typical workshop, participants will be provided with the materials and instruction to build at least one low-cost solar cooker. The class will install a solar cooker at the host organization site, ranging in size and complexity based upon the needs of the host. Our goal is to provide our host site with a substantial and durable solar oven that has the capacity to feed many people at a time.