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## **Course Announcement: Water Harvesting Apprenticeship Program August 15 - 24, 2012 – Santa Barbara, CA**

Watershed Management Group (WMG) is accepting applications for its *Water Harvesting Apprenticeship program* to be held August 15 - 24, 2012, in Santa Barbara, California. Applications are accepted until July 23<sup>rd</sup>, with priority registration given to residents of southern Santa Barbara County and those interested in becoming a workshop instructor for WMG in Santa Barbara.

The apprenticeship program's goal is to provide in-depth training in how to be project managers and educational instructors for water harvesting projects. In order to qualify for the course, applicants must have a background in water harvesting, such as attending WMG's Water Harvesting Certification, other similar trainings, or other work experiences in the field.

WMG has trained over 140 people through our Water Harvesting Certification from throughout the U.S., Mexico, and Canada. Catlow Shipek, the lead apprenticeship instructor, has over 6 years of experience leading water harvesting workshops and training. With a background in watershed management, Catlow has worked from the backyard to small watershed scale in both rural and urban landscapes implementing surface water solutions.

### **Program Description**

Participants will assess, design, and implement several integrated water harvesting systems at residential sites. Apprentices will conduct actual site assessments, then use this information to draft site designs and project estimates. After the design phase, students will participate in planning for the site implementation, sourcing materials, and then co-lead installation workshops. Each student will participate in two installation workshops and then co-lead one workshop. Instructors will provide feedback on all stages of the training, from reviewing designs and estimates, to technical skills, to workshop facilitation. To ensure a quality apprenticeship experience, we are limiting the number of participants in the course to 3 to 6 students.

### **Registration Deadlines:**

To be considered for the apprenticeship program, applicants must submit a one-page resume and online application form (<https://www.surveymonkey.com/s/sb-apprenticeship>) by July 23<sup>rd</sup>. We will review applications weekly leading up to July 23<sup>rd</sup>. The apprenticeship program fee is \$500, and will need to be paid by August 6<sup>th</sup> to participate in the course. Work trade agreements may be arranged to help cover program costs; event with negotiated work trade, there will be a minimum administrative fee of \$100.

### **Course Requirements and Qualifications**

In order to qualify for the apprenticeship program, applicants must read Brad Lancaster's, Rainwater Harvesting for Drylands and Beyond, Vol 1 and 2, and Art Ludwig's Create an Oasis

with Greywater and Laundry-to-Landscape Greywater DVD and meet the following pre-requisites:

- Background training or employment in related discipline
- Ability to participate in outdoor, physical activities
- Live in the Santa Barbara region

Priority will be given to applicants who:

- Are interested in leading workshops with WMG
- Can participate in the entire apprenticeship program

### **Contact**

If you have any questions about the training program or application process, please contact Catlow Shipek by email at [catlow@watershedmg.org](mailto:catlow@watershedmg.org) or by phone at 520-396-3266. You may learn more about Watershed Management Group by visiting our website at [www.watershedmg.org](http://www.watershedmg.org). For more information on WMG's work in Santa Barbara, contact Barbara Wishingrad by email at [bwishingrad@watershedmg.org](mailto:bwishingrad@watershedmg.org) or by phone at 805-403-4566.

### **Course Schedule**

Wednesday, August 15<sup>th</sup> to Friday, August 24<sup>th</sup> (Day off – Sunday, Aug 19<sup>th</sup>); All days (unless specified) 8am to 5pm with lunch provided. Detailed course schedule to be provided 1 week prior to course start.

### **Curriculum Outline**

1. Conducting an efficient site assessment for water harvesting practice implementation
  - a. Assess 2-3 residential sites
  - b. Preparation, conducting, recording, summarizing
2. Developing a Water Harvesting Site Plan
  - a. Develop 2-3 site plans
  - b. Design process and communicating design
3. Generating a Feature Design & a Cost Estimate
  - a. Develop water harvesting feature designs
  - b. Utilize assessment and site plan to develop feature plan
  - c. Detail design process, communicating design
  - d. Generating cost estimates based on design
4. Planning and Leading Co-op Workshops
  - a. Ordering, collecting and staging materials
  - b. Site preparations
  - c. Workshop planning and management

### **Primary Instructor**

Catlow Shipek, WMG Sr. Program Manager - Catlow Shipek has led over 100 water harvesting workshops for WMG over the past six years. He teaches classroom-based and hands-on implementation workshops of a variety of water harvesting systems including: cisterns, greywater systems, passive earthworks, and erosion control techniques. Catlow has a Master's in Watershed Management from the University of Arizona and experience with erosion and sedimentation research in southeastern Arizona's rangelands. He manages various WMG programs including the Green Living Co-op, Schoolyard Water Education, and Water Harvesting Demonstration Sites program, along with consulting and international work.