Methods for Repointing Historic Brick Masonry  
Wednesday and Thursday, June 6-7. 2012  
Windsor, Vermont  
Registration: HWI members & government employees: $125.00 includes lunch daily.  
Others: $150.00

Course Description:

Students will earn to repoint historic brick masonry with lime based mortar. Learn to match joint color, mortar composition, and tooling of joints. History of the craft will be covered as well. 16 hours.

Learning Objectives

At the end of the course, the successful student will be able to:

1. Describe the basic history of brick work and pointing through class discussions of slides, lectures, and hands-on examination of brick work from different periods.
2. Practice safety measures in use of masonry products and construction techniques using sample course materials under the supervision of the instructor.
   - Protective clothing- safety glasses, masks and respirators
   - Hand tools
   - MSDS (Materials Safety Data Sheets)
   - Stabilization
   - Mechanical equipment operation
   - First aide training
   - OSHA standards
3. Explain the uses and fabrication of brick and various mortars through class discussions of slides, lecture, and hands-on examination of brick and related materials from different periods.
4. Student will evaluate the condition of and repair the brick masonry repointing project under the supervision of the course instructor using sample course materials under the supervision of the instructor.
5. Repoint brick masonry.
6. Specify, differentiate, and work with historic and compatible mortars for brick work of different periods.

Course Methods:

Lecture, PowerPoint, Discussion, laboratory analysis of materials, field inspection of the project, and hands-on training in mixing mortars and repointing techniques.
**Recommended Reading in Advance:**

**National Park Service Preservation Briefs:**
#1, Assessing Cleaning and Water-Repellent Treatments for Historic Masonry Buildings  
#2, Repointing Mortar Joints in Historic Masonry Buildings  
#6, Dangers of Abrasive Cleaning for Historic Buildings  
#37, Appropriate Methods for Reducing Lead-Paint Hazards in Historic Housing  
#39, Holding the Line: Controlling Unwanted Moisture in Historic Buildings  
Please visit [www.nps.gov/tps](http://www.nps.gov/tps) for briefs.

**Recommended Texts:**
Out of print, but highly recommended that participants acquire them:  
- An Introduction to Early American Masonry by Harley McKee  
- Masonry: How to Care for Old Brick and Stone by Mark London

**For students enrolling in the optional college credit program - Student Evaluation:**
Student evaluation will be based on a final test and their portfolio documentation. Students will document their work for their portfolio with photos and text. Students must pass the test and portfolio exercise with grade of 70 percent or better.

**Day 1**
9:00 am- noon  
Lecture and Power point on the history of Brick Work  
Evolution of Mortars for Brick  
Laboratory Exercise to arrive at the correct mortar for the hands-on work

1:00 pm -2:00 pm.  
Review job-site safety for brick repointing and practice tooling techniques on wall model.

2:00 pm – 3:15 pm  
Investigate job site and begin to make mortar

3:15 pm -4:45 pm  
Begin repointing

4:45 pm -5:30 pm  
Cleanup site

**Day 2**
9:00 am -9:30 am  
Review previous day’s work and have a Q&A  
Review Safety procedures
9:30 am – 4:00 pm (1 hour for lunch and 2, 15 minute breaks)
Hands-on instruction and repointing including one on one with instructor

4:00 pm-5:00 pm
Site cleanup

5:00 pm – 5:30 pm
Wrap-up and Q&A

5:30 pm-6 pm
Test and Evaluations

**To Register:** Call with credit card information or mail a check made payable to Historic Windsor to

Preservation Education Institute
Historic Windsor, Inc.
PO Box 1777
Windsor, VT 05089
802 674-6752
histwininc@valley.net
www.preservationworks.org