

**THE PRESERVATION EDUCATION INSTITUTE**  
A Division of Historic Windsor, Inc.  
PO BOX 1777, 54 MAIN STREET  
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[www.preservationworks.org](http://www.preservationworks.org)

## **Repointing Brick Masonry**

**Date August 19-20, 2010**

**Course Description:** Learn to repoint historic brick masonry with lime based mortar. Learn to match joint color, mortar composition, and tooling of joints.

**Location Description:** The DAR Strong House, Addison, Vermont

**Instructors:**

James Duggan, President, Preservation Unlimited, Montpelier, VT

**Date:** August 19-20, 2010

**Time:** 8:30 am -4:30 pm daily

**Location:** Addison, Vermont

**Class Size:** No more than 15 students

**Cost/tuition/fee:** \$129 members of HWI/PEI and Government employees; Others: \$159

**Special Notes:** Lunch is included daily

**Recommended Reading in Advance: NPS 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.

**Learning Objectives**

- Student will describe the basic history of pointing through class discussions of slides, lectures, and hands-on examination of brick work from different periods
  - Comprehension
- Student will apply safety measures in use of masonry products and construction techniques using sample course materials under the supervision of the instructor
  - Application
- Student will 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.
  - Comprehension

- Student will describe types of brick structural systems, common problem areas, and sources of deterioration materials through class discussions of slides, lecture, and hands-on examination of masonry materials from different periods
  - Comprehension
- Student will evaluate the condition of and repair structural masonry under the supervision of the course instructor using sample course materials under the supervision of the instructor
  - Evaluation
- Students will schedule and cost out a brick repointing and repair project including planning, evaluation, and repair using sample course materials under the supervision of the instructor
  - Application
- Student will describe masonry testing techniques and construction standards materials through class discussions of slides, lecture, and hands-on examination of masonry materials from different periods
  - Comprehension

### **Student Objectives**

- Student will describe the basic history of brick work.
- Student will apply safety measures in use of masonry products and construction techniques, including but not limited to the following:
  - Protective clothing- safety glasses, masks and respirators
  - Hand tools
  - MSDS (Materials Safety Data Sheets)
  - Stabilization
  - Mechanical equipment operation
  - First aide training
  - OSHA standards
- Student will evaluate the condition of and repair structural masonry under the supervision of the course instructor
- Students will schedule and cost out a masonry repair project including planning, evaluation, and repair
- Student will describe masonry testing techniques and construction standards
  - Compression strength
  - Absorption
  - Mortar analysis
  - ASTM standards

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