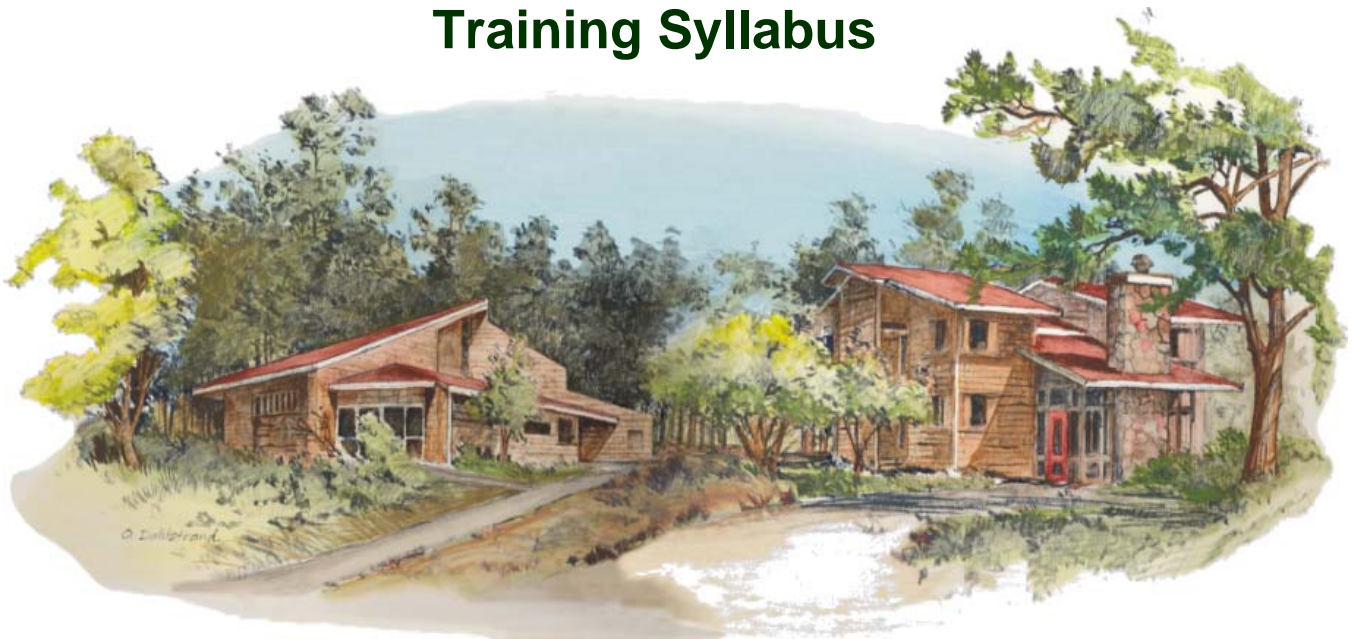


HISTORIC STRUCTURES MAINTENANCE: Rigging and Climbing Historic Preservation Training Center October 1-5, 2012

Training Syllabus



William Penn Mott Jr. Training Center



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***Mission Statement
Training Section***

***The mission of the Training Section is to improve
organizational and individual performance and
productivity through consulting, collaboration, training,
and development.***

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THE MISSION

of the California Department of Parks and Recreation is to provide for the health, inspiration and education of the people of California by helping to preserve the state's extraordinary biological diversity, protecting its most valued natural and cultural resources, and creating opportunities for high quality outdoor recreation.



FORMAL TRAINING GUIDELINES

Since 1969, our Department has been providing a continuously changing number of diverse training programs at its main training facility, the William Penn Mott Jr. Training Center and other locations including Marconi Conference Center. The Department strives to enhance your learning and job performance with formal training of the highest quality.

Our Department's dedication to training is only one aspect of its commitment to you and to the public. This commitment is costly and represents an important investment in you and your career. You and the Department realize a return on that investment by your positive participation in formal training itself and post training follow-through.

The program you will be participating in is described in this training syllabus, which outlines what you can expect from this training and what is expected of you. This syllabus details what you should do before you leave for training; what to do when you arrive; what you will be doing while in training; and, importantly, what you should be able to do when you return to your work site. Specifically:

1. **SYLLABUS:** Your copy of this syllabus is an important part of your training experience and should be brought with you to training. Read it before you arrive and review it following the program along with material you received at training.
2. **PRE-TRAINING ASSIGNMENTS:** Your completion of pre-training assignments is essential to the success of your training. You are responsible for all reading assignments in preparation for classroom sessions. Time will be provided during working hours to accomplish any assignments which involve either individual or group efforts and resources. (Pre-training assignments are listed in the "Program Attendance Checklist" section.)
3. **CLOTHING:** Uniforms are not required for this program. Special clothing requirements for your program are described in "Training Attendance Checklist" section.

4. **COURSE LEADERS:** The formal training you will attend is developed and, for the most part, conducted by experienced State Park employees in field and staff positions. Some courses will be conducted by qualified instructors from other agencies and educational institutions. Your course leaders have proven their ability and knowledge in their profession, and provide a level of expertise difficult to match.
5. **TRAINING CENTER STAFF:** A Training Center staff member has been assigned responsibility for your training group as well as for your training program. That staff member usually serves as a Course Leader as well as a Coordinator. During the program, you may be asked to assist Training Center staff in the logistics of your training program (organizing field trip transportation, supervising classroom breaks, etc.). Center staff will do all within their power to make your training experience pleasant and meaningful.
6. **SAFETY/COMFORT REMINDER:** We will be training at the beginning of the fall rains, so be prepared for adverse weather. Bring rain gear and layered work clothing that will allow you to stay comfortable while working/hiking in inclement conditions. There may be poison ivy at this training.
7. **CELL PHONES:** As a courtesy to your fellow participants and course leaders ensure that your cell phone is turned off during classes. Participants should not be receiving or making cell phone calls during class time. Please limit those calls to your breaks.

PROGRAM ATTENDANCE CHECKLIST

To assist you in your preparation for formal training the following list is provided:

1. Read and understand the Historic Structures Maintenance Rigging and Climbing Syllabus prior to your arrival at training. Meet with your supervisor to review the syllabus and to discuss expectations.
2. Remember to bring the following with you to training:
 - Program Syllabus.
 - Personal supplies and equipment: drinking water, lunch, and a daypack to carry any personal items.
 - Personal safety equipment (safety glasses, ear protection, gloves, hardhat, and sunscreen).
 - Appropriate work clothing and rain gear with good work boots.
3. If you have questions or need help contact the Program Coordinator, Chuck Combs, by telephone at (831) 649-7124 or via e-mail at chuck@parks.ca.gov .

HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING

October 1-5, 2012

First Meeting: NPS C&O Canal Headquarters-Hagerstown: Training Room

1850 Dual Highway, Suite 100
Hagerstown, MD 21740-6620

Monday

October 1

0800-0830	Introduction and Class Overview	Combs/Beers
0830-0900	Rigging Mechanics	Allsop
0900-0915	Break	
0915-1945	Rigging Mechanics	Allsop
0945-1000	Break	
1000-1100	Rigging Applications	Beers
1100-1115	Break	
1115-1145	Mathematics Used in Rigging Calculations	Allsop
1145-1215	Break for Lunch	
1215-1315	Knot Tying, Cutting Wire Rope, Flemish Eyes, and Coiling Wire Rope	Allsop/Fisher
1315-1345	Break	
1345-1445	Rigging Tool Identification and Use	Fisher
1445-1500	Break	
1500-1530	Rigging Tool Identification and Use	
1530-1545	Break	
1545-1700	Rigging Safety	

Field Session: NPS C&O Canal - Lock 56

Tuesday

October 2

0800-0900	Climbing Ladder Demonstration	All
0900-1200	Climbing Ladder Lab (groups)	All
1200-1230	Lunch	
1230-1700	Mechanical Advantage Labs (groups)	All

Field Session: NPS C&O Canal - Lock 56

Wednesday

October 3

0800-1200	Morning Rotating Labs (3) 4 Hours Each High Leads - Group 1 Skylines - Group 2 Tripods with Taught Lines and Anchors - Group 3	Turner/Beers/ Allsop/ Fisher
1200-1230	Lunch	
1230-1700	Afternoon Rotating Labs (3) 4 Hours Each High Leads - Group 3 Skylines - Group 1 Tripods with Taught Lines and Anchors - Group 2	

HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING
October 1-5, 2012

Field Session: NPS C&O Canal - Lock 56

Thursday

October 4

0800-1200	Morning Rotating Labs (3) 4 Hours Each High Leads - Group 2 Skylines - Group 3	Turner/Beers/ Allsop/ Fisher
1200-1430	Tripods with Taught Lines and Anchors - Group 1 Breakdown Rigging, Lunch and Travel from Field Site to Hancock	All

Field Session: NPS C &O Hancock Maintenance Facility

441 E Main St
Hancock, MD 21750

1430-1700	Griphoist Repairs and Maintenance	Allsop/Fisher
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Field Session: NPS Thomas Barn at Monocacy Battlefield

4460 Baker Valley Road
Frederick, MD 21740

Friday

October 5

0800-0930	Rigging Demonstration Using Scaffolding, A Frame, Anchors and Hoist (historic barn)	Knapp/ Beers/ Allsop/Fisher
0930-0945	Break	
0945-1015	Class Review and Task Hazard Analysis/JHA	Beers
1015-1030	Break	
1030-1100	Class Evaluations	
1100-	End of Training	

PROGRAM: HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING

PROGRAM OUTLINE

PROGRAM ORIENTATION AND REGISTRATION..... 1.0

CLIMBING AND RIGGING LECTURE 7.0
Climbing and Rigging Applications in Trail Projects
Climbing and Rigging Tool and Equipment Identification/Uses
Rigging Applications and Theory
Rigging Demonstrations
Climbing and Rigging Safety
Knot Tying

TREE CLIMBING AND MECHANICAL ADVANTAGE LAB..... 8.0
Swedish Climbing Ladders
GripHoist Applications, Mechanical Advantage Sets

RIGGING LAB..... 16.0
Rigging Sets, Highleads and Direct Pulls
Tripods and Scaffolding.....
Skylines.....
Barn Rigging Demonstration

GRIPHOIST LAB..... 2.0
GripHoist Maintenance and Repairs

CLASS REVIEW AND JOB HAZARD ANALYSIS..... 1.0

PROGRAM EVALUATIONS..... 1.0

TOTAL HOURS..... 36

HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING

PROGRAM ORIENTATION AND REGISTRATION

Purpose: Participants and trainers will become acquainted with each other and the Program Coordinator and instructors. The group will be given information on the logistics of the week's training program at the Historic Preservation Training Center. Participants will share their knowledge gained in trails and rigging and expectations they have for this program. In addition, the program content will be reviewed.

Performance Objectives: By the close of the session the participants will

1. Review program content, procedure, and evaluation processes.
2. Share and record expectations with group members.

RIGGING APPLICATIONS, EQUIPMENT, THEORY AND SAFETY

Purpose: Provide participants with an understanding of the uses of climbing and rigging techniques in trail construction and maintenance projects.

Performance Objectives: By the close of the session the participants will

1. Demonstrate knowledge of the variety of rigging techniques and applications that can be used to help them perform their trail work.
2. Identify and know the specific uses for a wide variety of climbing and rigging tools and equipment.
3. Recognize the basic mechanical theories related to rigging and the range of applications that can be used in rigging sets.
4. Describe the safety issues related to rigging operations and the precautions necessary to insure a safe work site.
5. Tie a number of basic knots used in tree climbing and rigging.
6. Perform routine repairs and maintenance on griphoist.

TREE CLIMBING LAB

Purpose: To develop the necessary skills to climb trees for the purpose of installing rigging sets.

Performance Objectives: By the close of the session the participant will

1. Identify tree climbing equipment, its use, and what equipment is the most appropriate for their skills and their project.
2. Climb trees using Swedish tree climbing ladders.
3. Explain the role of the ground support crew in assisting the climber.
4. Demonstrate techniques that assist climbers in hanging rigging in trees.
5. Review the safety issues related to tree climbing and the necessary precautions.

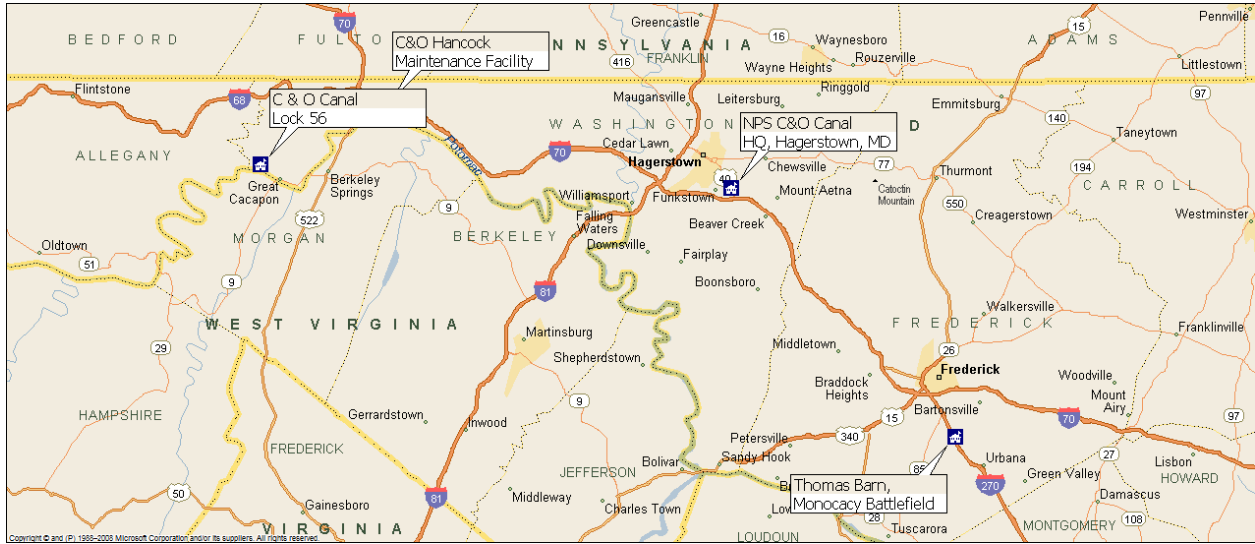
RIGGING LAB

Purpose: Develop the knowledge and skill necessary to design and install a variety of rigging sets.

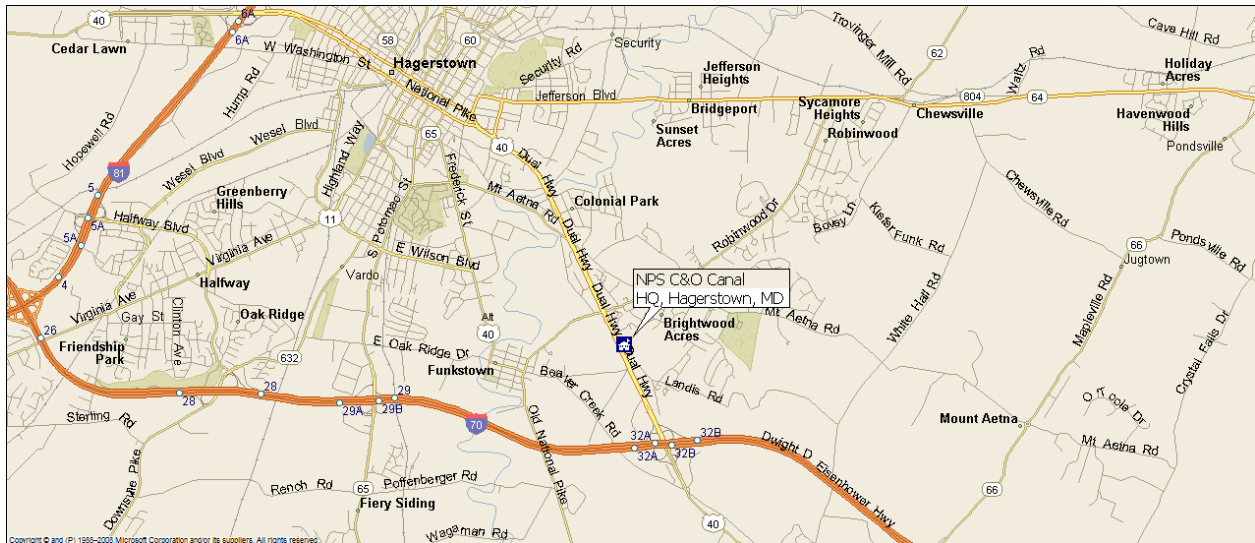
Performance Objectives: By the close of the session the participants will

1. Practice installing rigging sets such as skylines, haulback lines, high leads, choker rolls and direct pulls.
2. Apply the use of mechanical advantage to safely maximize the capacity of their equipment.
3. Employ winches to perform rigging projects including chain hoist, grip hoist, electric grip hoist, chainsaw winches, and PTO winches.
4. Practice using rigging to move and install large rocks, logs or bridge stringers with minimal resource impacts.
5. Restate the safety risk associated with rigging projects and the necessary precautions.

Training Sites



Hagerstown Training Site



Thomas Barn

