HISTORIC STRUCTURES MAINTENANCE: Rigging and ClimbingHistoric Preservation Training Center

November 2-5, 2009

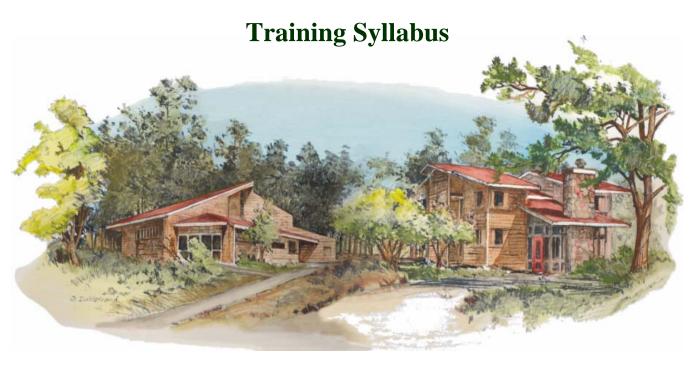








TABLE OF CONTENTS

Formal Training Guidelines	1
Program Attendance Checklist	3
Agenda	4
Program Outline	6
Program Objectives	7

Mission Statement Training Section

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

MOTT TRAINING CENTER STAFF

Tina Williams	.Department Training Officer
Pat Bost	Office Manager
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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, California State Parks 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 and, most recently, the Two Rivers Training Facility in Sacramento. 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 Requirements" 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.
- 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 oak 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.	Sylla	d and understand the Historic Structures Maintenance Rigging and Climbing abus prior to your arrival at training. Meet with your supervisor to review the abus and to discuss expectations.
2. Remember to bring the following with you to training:		nember to bring the following with you to training:
		Program Syllabus.
		Personal supplies and equipment: Abbney or Clinometer, 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 November 2-5, 2009

First Meeting: Historic Preservation Training Center-Training Room

Monday		
November 2		
0800-0830	Introduction and Class Overview	Combs/ Beers
0830-0900	Rigging Mechanics	Knapp/Beers
0900-0915	Break	
0915-0945	Rigging Mechanics	Allsop/Fisher
0945-1030	Rigging Applications	
1030-1045	Break	
1045-1130	Mathematics Used in Rigging Calculations	
1130-1200	Lunch	
1200-1300	Knot Tying, Cutting Wire Rope, Flemish Eyes and Coiling Wire Rope	
1300-1315	Break	
1315-1415	Rigging Tool Identification and Use	Allsop/Fisher
1415-1430	Break	
1430-1530	Rigging Tool Identification and Use	
1530-1545	Break	
1545-1700	Rigging Safety	
Tuesday <u>November 3</u> 0800-0900 0900-1200	Climbing Ladder Demonstration Climbing Ladder Lab (4 Groups)	All All
1200-1230	Lunch	
1230-1700	Mechanical Advantage Labs (4 Groups)	All
Wednesday <u>November 4</u>		
0800-1200	Morning Rotating Labs (3) 4 Hours Each High Leads-Group 1 Skylines-Group 2 Tripods with Taught Lines and Anchors-Group 3	Knapp/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 November 2-5, 2009

Thursday		
November 5		
0800-1200	Morning Rotating Labs (3) 4 Hours Each	Knapp/Beers/
	High Leads-Group 1	Allsop/Fisher
	Skylines-Group 2	
	Tripods with Taught Lines and Anchors - Group 3	
1200-1300	Lunch and Travel from Field Site to Gambrell House (depending on conditions)	
1300-1500	Griphoist Repairs and Maintenance	
1500-1600	Task Hazard Analysis/JHA	
1600-1630	Class Review	
1630-1700	Class Evaluations	
1700-	End of Training	

PROGRAM: HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING

PROGRAM OUTLINE

PROGRAM ORIENTATION AND REGISTRATION	1.0
CLIMBING AND RIGGING LECTURE 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. Swedish Climbing Ladders	
RIGGING LAB Rigging Sets, High Leads and Direct Pulls Tripods and Scaffolding. Skylines	
GRIPHOIST LAB LAB Griphoist Maintenance and Repairs	
CLASS REVIEW AND JOB HAZARD ANALYSIS	1.0
PROGRAM EVALUATIONS	<u>1.0</u>
TOTAL HOURS	32

HISTORIC STRUCTURES MAINTENANCE: RIGGING AND CLIMBING

PROGRAM ORIENTATION AND REGISTRATION

<u>Purpose</u>: 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

<u>Purpose</u>: 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

<u>Purpose</u>: 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

<u>Purpose</u>: 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.