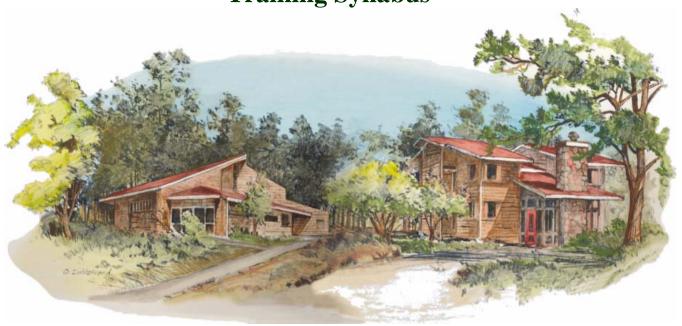
# ADVANCED PLUMBING SKILLS

June 7-12, 2009

**Training Syllabus** 



William Penn Mott Jr. Training Center



# Memorandum

**Date:** May 21, 2009

**To:** Supervisor

From: Department of Parks and Recreation

William Penn Mott Jr. Training Center

Subject: Employee Attendance at Formal Training

Advanced Plumbing Skills Group 11

An employee from your office will soon be attending the formal training program described in the attached. Please insure that the employee is fully prepared to attend the session and that the groundwork is laid for the employee's implementation of the training upon returning to work.

You can assist with capturing the full value of the training by taking the following steps:

#### **Prior to Training**

- 1. Make sure that specific employee needs are identified and, if necessary, called immediately to the attention of the Training Coordinator.
- 2. Review with the employee the reason for the employee's attendance.
- 3. Review objectives and agenda with the employee.
- 4. Discuss objectives and performance expected after the training.

#### <u>Immediately Following Attendance</u>

- 1. Discuss what was learned and intended uses of the training.
- 2. Review the employee's assessment of the training program for its impact at the workplace and review the due date of the Post-Training Evaluation form.
- 3. Support the employee's use of the training at the work place.

#### Prior to Three Months Following Training

- 1. Employee after discussion with the supervisor login to the Employee Training Management System (ETMS) to complete the Post-Training Evaluation form.
- 2. Supervisor evaluates the effectiveness of the training on the employee's job performance and login to the ETMS to complete the Training Effectiveness Assessment form.

Thank you for your assistance in seeing that the full benefit of training is realized.

Tina L. Williams

**Department Training Officer** 

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Attachment

cc: Participant

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## Mission Statement Training Office

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

# **MOTT TRAINING CENTER STAFF**

Tina Williams	Department Training Officer
Pat Bost	Office Manager
Joanne Danielson	Academy Coordinator
Chuck Combs	Training Specialist
Sara M. Skinner	Training Specialist
Dave Galanti	Training Specialist
Karyn Lombard	Training Specialist
Connie Breakfield	Cadet Training Officer
Matt Cardinet	Cadet Training Officer
Pamela Yaeger	Assistant Program Coordinator
Bill Spencer	Assistant Program Coordinator
Edith Alhambra	Assistant Program Coordinator
Eric Marks	Program Assistant

#### 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**

Welcome to formal training, an essential component in your career development.

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 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: The syllabus is now accessible on the Employee Training Management System (ETMS). You should print a copy of the syllabus to bring with you to class. 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 "Training Attendance Requirements" section.)

3. TRAVEL: Arrange your travel to and from the training through your District or Office. (No reimbursement for travel expense - including per diem costs - will be approved for travel not specifically authorized in advance by the District Superintendent.) Individuals may claim reimbursement for incidental expenses incurred as outlined in DAM 0410.6. The Training Center does not have the capability to provide transportation to/from Monterey Airport.

The cost of your travel (air fair, mileage, rental car, etc.) is paid by your District or Office **to** and **from** the location of the training.

4. HOUSING: Housing will be assigned to you on a shared-room basis and will be available from 3:00 p.m. on the date of arrival to 12:00 noon on the date of departure. The Department provides your room and board expenses at the Training Center only. No per diem allowance will be authorized for living off-grounds. This does not preclude living off-grounds at your own expense. Please advise the Department Training Officer no later than one week before your scheduled arrival if you plan to live off-grounds. No animals are permitted in Asilomar housing. In the event of an emergency, staff must know your room assignment; therefore, you may not switch rooms without staff approval. Overnight guests are not allowed in the buildings unless registered beforehand at the front desk in Asilomar's Administration Building. Quiet hour for lodge living areas is 10:00 p.m.

<u>Please Note</u>: You may be assigned a room at a motel while attending training. If so you may be asked to present a valid credit or debit card while checking in to your room. Many motels require a credit card to cover charges incurred such as telephone calls, damages to rooms and/or furnishings, fees to clean rooms that have been smoked in that are not designated as smoking rooms, etc. Please be prepared to handle this appropriately.

5. HOUSING CANCELLATION POLICY: If you do not need lodging or must change or cancel your reservation, you must contact the Training Center at least 72 hours prior to your date of arrival. Lodging, registration and associated fees will be charged to the employee's District or Office if a training cancellation is received with less than 72 hours notice.

The Training Center is committed to ensuring that the reservation that has been made for you is accurate and needed.

6. OFF-GROUNDS ACCOMMODATIONS: When authorized to stay off-grounds by the Department Training Officer, the Training Center will pickup the cost of your room and meals at the current DPR Asilomar rate. If you stay off grounds and have meals on grounds, the Training Center will authorize only what the Department pays Asilomar for lodging.

- 7. MEALS: Meals will be provided, semi-cafeteria style, from dinner on the date of arrival through lunch on the date of departure. Meals will be served at 7:15 a.m. for breakfast, 12:00 noon for lunch, and 6:00 p.m. for dinner. Hot or box lunches may be provided on some days. If you require a special diet, notify the Asilomar Chef at 831-372-8016 no later than one week before your scheduled arrival.
  - In order to assist participants with limited mobility, Asilomar provides a shuttle to and from the dining hall. Please contact either Asilomar staff upon check in, or Training Center staff upon your arrival, for instructions on arranging a transport.
- 8. CLOTHING: Field uniforms as found in "Description of Required Field Uniforms", DOM Chapter 2300, Uniform Handbooks, not including optional items, will be worn daily by all uniformed employees during formal training sessions <u>unless</u> <u>otherwise specified in the Program Attendance Checklist</u>. Non-uniformed employees shall wear professional business attire.
  - Because we are on the conference grounds with many other groups, and the image we project as State Park employees is important not only during working hours but off duty hours as well, your informal sportswear should be appropriate.
- 9. ROOM SAFES: Two safes have been installed in each of the lodge rooms used by the Training Center (Live Oak, Tree Tops, and Deer Lodge). These safes are a type that allows the user to input their own combination of numbers to facilitate opening and closing. The Training Center has a master key for emergency entry. Safes are to be left in the open position when checking out of your room.
- 10. WEAPONS: Weapons are permitted in rooms under the following conditions. Authorized firearms and magazines stored while at the Training Center shall be in a safe condition and stored in one of the following locations: your room safe in Live Oak, Tree Tops, or Deer Lodge, one of the Training Center's safes in the Whitehead Room or secured in your vehicle.
- 11. ALCOHOLIC BEVERAGES: Participants shall not possess or consume alcoholic beverages in common areas (living room) while on the Asilomar Conference Grounds unless provided and hosted by Concessionaire Delaware North.
- 12. SMOKING: Smoking is not permitted in the Training Center or in any lodge or guest room on the Asilomar Conference Grounds.
- 13. TRAINING CENTER: The Training Center is located on Asilomar Conference Grounds, part of Asilomar State Beach. The Conference Grounds are operated for our Department by a concessionaire, and all lodging and food services are provided to us by employees of the concessionaire. Constant efforts are made to maintain a sound, harmonious working relationship between the Department and concessionaire. None of us can expect preferential treatment for any reason and, as a departmental employee; you will be expected to join in our continuing effort

- toward an effective relationship with each Asilomar concession staff member. On occasion, non-departmental groups may be staying in the same lodges. It is imperative that you represent the Department well on and off duty.
- 14. REGISTRATION: When you arrive at Asilomar Conference Grounds, go directly to the front desk at the Asilomar Administration Building for your room key and dining room ticket. If you require vegetarian meals, notify the front desk representative and your meal ticket will be marked accordingly.
- 15. 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.
- 16. 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.
- 17. TRAINING MATERIALS: May be made available to you at both your unit and the Training Center. Handout materials issued at your unit should be brought to training for possible use. A conference binder or notebook will be issued to you at the training session for note taking and convenience in handling materials. Copies of DAM and DOM will be available to you for self-study. Bring your own pens and pencils.
- 18. ATTENDANCE: Regular attendance is a critical course requirement and your participation is important to the success of this training. All absences, except those of an emergency nature, must be approved in advance by the Training Specialist.
- 19. COLLEGE CREDIT: Most training programs are accredited by Monterey Peninsula College for lower division credit. If you successfully complete an accredited program, you will receive either a letter grade or a credit/no-credit designation.
- 20. MPC STUDENT ID: If you have filled out an MPC application before, you have already been issued a student ID number to use in lieu of your SSN on future applications. You can obtain your MPC ID number by going to their secure website and providing your SSN number (no name required) and birthdate.

https://autobahn.mpc.edu/scripts/autobahn.exe/Execute?Application=WebReg&Program=REPORT-SR-FIND-SSN

Newcomers to training will still need to provide their SSN on the first MPC application only, after which a student ID number will be assigned and available at the web address above within a few weeks of the program's conclusion. You can store your MPC ID numbers in your ETMS Profile for future reference.

- 21. VEHICLES: All vehicles should be parked in the lots adjacent to the Training Center. Any questions regarding use of a State vehicle while at the Training Center should be discussed with your supervisor prior to your departure for training, or with your Program Coordinator while at the Training Center.
- 22. BICYCLES: If you bring your bicycle, store it in the bicycle shed next to the Training Center. Bicycles may not be brought into any building nor chained to lamp posts, trees, etc. The Training Center has a limited number of bicycles available for your use. Prior to your use, you are required to complete a safety inspection and sign a waiver which is posted in the bicycle shed.
- 23. MAIL: Mail forwarded to you during your time at the Center should be addressed to you in care of:

Department of Parks and Recreation WILLIAM PENN MOTT JR. TRAINING CENTER P. O. Box 699, Pacific Grove, CA 93950

- 24. 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.
- 25. FAX: The Training Center's FAX number is (831) 649-2824.
- 26. TELEPHONE: Limit phone calls during classroom hours to urgent business or emergencies. Anyone wishing to contact you by telephone during working hours should call the Center at (831) 649-2954. Calls after 5:00 p.m. or during weekends should be made to (831) 372-8016, Asilomar Conference Grounds, and the caller should tell the switchboard operator you are with a Department of Parks and Recreations training group. Please Note: There are no longer pay telephones outside of the Training Center. There are pay telephones located at the Asilomar Administration Building.
- 27. LAUNDRY AND DRY CLEANING: May be taken care of by you at one of several local establishments.

- 28. RECREATION: Facilities available on grounds include a heated swimming pool, ping-pong and pool tables, and a volleyball court. The Monterey area offers horseback riding, golf, tennis, racquetball, deep sea fishing, and many historical landmarks and scenic sights to explore.
- 29. POST-TRAINING ASSIGNMENTS: In connection with formal training are to be completed under the direction of your supervisor. See "Program Attendance Requirements" in this syllabus.
- 30. COFFEE BREAK REFRESHMENTS: Will be available throughout each session at the Center. You will be asked to contribute to the "Hospitality Fund" to defray expenses. Please bring your own coffee cup.

# **PROGRAM ATTENDANCE CHECKLIST**

•	ı in your preparation for formal training session at the William Penn Mott Jr. ter the following list is provided:
 1.	Read and understand the Advanced Plumbing Skills Program Syllabus prior to your arrival at the Training Center.
 2.	Review the text and handout materials you received during the Intermediate Plumbing Skills training program.
 3.	Complete the pre-training assignment attached to this syllabus.
	☐ Discuss the Advanced Plumbing Skills program with your supervisor. What specific changes in your abilities and performance are expected to result from your attending this training? List these expectations along with your own under "Expectations" on the back of the "Pretraining Questionnaire".
	☐ Discuss the projects you will be assigned in the next twelve months, which will utilize the skills developed during the training program.
 4.	Remember to bring the following with you to training:
	☐ Program syllabus.
	☐ Personal safety equipment (eye, ear, head, and hand protection).
	☐ Coveralls or appropriate work clothing.
	□ Proper Field Uniform (See FORMAL TRAINING GUIDELINES section 8 and the Uniform Handbook).
	☐ Coffee cup, calculator, pencils, pens, alarm clock.

If you have questions or need help contact Program Coordinator Chuck Combs, at (831) 649-7124 or <a href="mailto:chuck@parks.ca.gov">chuck@parks.ca.gov</a>. He will be happy to offer suggestions.

### **POST-TRAINING ASSIGNMENT**

Prior to ninety days after the completion of this program, the employee and his/her supervisor should sit down and discuss the impact and assess the effectiveness this program has had on the employee. Then both the supervisor and employee should login to the Employee Training Management System (ETMS) and complete the Post-Training Evaluation form (an email will be sent to both employee and supervisor notifying them that the evaluation needs to be completed). Once you login to the ETMS, you will need to fill out the evaluation form before you will be able to do anything else.

The post-training evaluation process is intended to provide a bridge between classroom instruction and the on-the-job application of training. The information obtained through this process will assist the training participant, supervisor, and Training Center in providing a return on the investment the Department has on training.

## ADVANCED PLUMBING SKILLS GROUP 11 - Agenda - June 7-12, 2009

Lead Instructor: Curt Linse
Assistant Program Coordinators: David Hallstrom - Steve Houghton

## Special Notice:

This program will be conducted at the Mott Training Center Shop Annex, 2211 Garden Road, Building C, Monterey, California. Vans are available to transport you to and from the Shop Annex and will leave the Mott Training Center promptly at 0800 daily and return by 1700.

<b>Sunday</b> <u><b>June 7</b></u> 1500-	REGISTRATION: Check in at the Asilomar Administration Building.	All
Monday June 8 0830-0930 0930-1200	Program Orientation/Expectations/MPC Registration Plumbing System Sizing/THA/Safety Review Lunch	Combs Halstrom/ Houghton
1300-1630	Water System Distribution	Linse
Tuesday June 9 0830-1000 1000-1200 1200-1300 1300-1500 1530-1630	Joint Restraint Systems Preventive Maintenance Program/Water Distribution and Wastewater Systems Lunch System Sanitation/Disinfecting/Backflow Submersible Pumps	Linse Rodriguez Rodriguez Houghton
Wednesday June 10		
0830-1000	Cal OSHA Laws and Regulations Confined Space/Trenching and Shoring/Confined Space Equipment Awareness	Linse
1000-1200	Fire Hydrant Service/Maintenance	Linse
1200-1300 1300-1500 1500-1630	Lunch Gas Valves Trouble Shooting and Repair Commercial/Solar Water Heating	Fughe Weingarten

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Thursday		
<u>June 11</u>		
0830-1000	Solar Residential Systems and Water Heating	Weingarten
1000-1230	Waste Water Reclamation Plant Tour	Harris
1230-1330	Lunch - Box	
1330-1630	Membrane Waste Water Systems	Sepulveda
	·	·
Friday		
<u>June 12</u>		
0830-1030	Pumps and Plumping	Linse
1030-1130	Exam and Exam Review	Linse
1130-1200	Program Evaluation	Combs
1200-	Depart	

# TRAINING PROGRAM: ADVANCED PLUMBING SKILLS 36 HOURS PROGRAM OUTLINE Total Course Hours Hours Program Overview and MPC Registration......1.0 ...... PLUMBING SYSTEMS ...... 11.5 Gas Valve Maintenance/Repair......2.0.....2.0 WATER SYSTEM DISTRIBUTION ......10.0 Potable Water System Sanitation......2.5 Joint Restraint Systems......2.0 PUMPS AND PUMPING ......4.5 Confined Space Entry Awareness/Shoring ......4.0 ...... Examinations ...... 1.0 Total Hours 36

#### **ADVANCED PLUMBING SKILLS**

#### PROGRAM ORIENTATION

<u>Purpose</u>: Participants will meet one another, the program coordinator and facilitator. The group will share expectations for the training program. In addition, program content will be reviewed and registration for Monterey Peninsula College completed.

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

- 1. Review program content, procedure, and evaluation processes.
- 2. Share and record expectations with group members.
- 3. Complete Monterey Peninsula College registration materials.
- 4. Adhere to all Formal Training Center Guidelines.

#### PLUMBING SYSTEMS

Purpose: To review codes and plumbing requirements for residential structures.

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

- 1. Review code requirements for gas, water, and drain/waste plumbing systems.
- 2. Review pipe-sizing procedures for gas, water, and DWV systems.
- 3. Demonstrate how to determine normal flow, peak flow, and unusual usage such as fire flows.
- 4. Identify the most energy efficient water heater features.
- 5. Identify the system components and gain information on the operation and maintenance of common solar water heating equipment.
- 6. Review the repair and maintenance of common gas valves used in the industry today including trouble shooting and retrofitting techniques.

#### WATER DISTRIBUTION SYSTEMS

<u>Purpose</u>: To introduce participants to water distribution systems and system components between water source and point of consumption.

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

- 1. Learn the components of a typical water distribution system and identify the function of each component.
- 2. Review the cause of water hammer, air lock, and head loss.
- 3. Review the causes of movement in water distribution lines.
- 4. Identify the correct positioning of thrust blocks on water lines.
- 5. Review the codes, laws, and procedures relating to water main sanitation and disinfecting.
- 6. Calculate the disinfectant dosage for a sample water main.
- 7. Review the codes, laws, and procedures relating to back-flow prevention.
- 8. Identify potential sources of cross-connections.
- 9. Review examples of acceptable back-flow prevention devices.
- 10. Develop and conduct a water distribution system surveillance program.
- 11. Review the importance of locating leaks and methods of leak detection.
- 12. Review the elements of a basic distribution system preventive maintenance program.

#### PLUMBING AND PIPEFITTING

<u>Purpose</u>: To examine the fittings and plumbing methods used in park water distribution systems.

<u>Performance Objectives</u>: By the close of the session the participant will

- 1. Review the selection and use of pipe and pipe fittings in sizes larger than 3" diameter.
- 2. Review installation and maintenance procedures for pipes larger than 3" diameter.

3. Review safety considerations when trenching/shoring.

#### PUMPS AND PUMPING

Purpose: To develop an understanding of pumps and pumping system maintenance.

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

- 1. Identify the basic components of a pump system.
- 2. Demonstrate an understanding of hydraulics and pump theory.
- 3. Review the major types of pumps used in water and waste water systems.
- 4. Demonstrate an understanding of how different pumps work.
- 5. Evaluate pump performance using pump specifications and performance curves.
- 6. Identify the wearing parts of a pump and demonstrate the ability to replace pump seals, packing, and components as required.
- 7. Demonstrate the ability to identify and correct pump/motor failures.
- 8. Identify the components of motor controls and telemetry systems.

#### RELATED TOPICS

<u>Purpose</u>: To provide the participant with the legal requirements of working in confined spaces.

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

1. Discuss how to work in and around confined spaces including the special requirements of a confined space program.

# location map for WILLIAM PENN MOTT JR. TRAINING CENTER 837 ASILOMAR BLVD. PACIFIC GROVE, CALIFORNIA 93950

