

Radiant and Hydronic Basics

by **Morgan Muir** (\$65 Lunch and Manuals Included)

Do's, don'ts and design principals of radiant floor heating Including heat source selection, piping and switching controls. Class also covers radiators, convectors and air handler A practical overview for any installing contractor or designer. One Day Class.

<input type="checkbox"/>	Wednesday, Feb 16	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, May 18	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, Aug 24	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601

Condensing Boilers and Water Heaters: Installation and Servicing (Full Day)

by **John Grose, Michael Ericksen (Ike)** (\$55 Lunch and Manuals Included)

Installation and servicing basics for MC Series, Elite, Pioneer, Modcon, Versa-Hydro, and Phoenix Solar condensing boilers and water heaters. Installation dos and don'ts, including piping, pumping, venting, condensate removal, electrical and combustion analysis **plus live boilers and water heaters!!...**

<input type="checkbox"/>	Wednesday, Feb 23	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, Apr 20	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Thursday, June 23	8:30 am to 4:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601

Residential Solar Hot Water

by **Morgan Muir, Randy Bettis** (\$25 half day)

This class features the design and installation of HTP solar hot water heaters, Phoenix Solar system and Boiler solar systems. Sizing and selecting SRCC certified solar systems. Collectors, tanks, circulators, controls and system installation. Review of the CSI Thermal rules and regulations.

<input type="checkbox"/>	Tuesday, Feb 22	8:30 am to 12:00 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, Apr 06	8:30 am to 12:00 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Thursday, Jun 02	8:30 am to 12:00 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, Aug 10	8:30 am to 12:00 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601

Commercial Solar Hot Water Workshop

by **Morgan Muir, John Grose** (\$65 Manual and Lunch Full day)

Site evaluation, sizing and installation of multifamily and commercial solar hot water systems will be covered. Discussion of the economics and highlights of CSI Thermal program. Prior attendance at PG&E CSI training is recommended. Learn 'dos' and 'don'ts' based upon thirty years of field installation and servicing experience .

<input type="checkbox"/>	Wednesday, Feb 09	8:30 am to 4:00 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
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The Residential Boiler Room

by **John Grose** (\$25 4 hour minimum Lunch)

Sizing and selecting Circulators, Variable Speed, Air Elimination, Expansion Tanks, Component configuration, Primary/Secondary, Hydraulic Separation, Pipe Sizing for Mechanical Room and Distribution, Mechanical Modules, Outdoor Reset. The nuts and bolts of the mechanical room and beyond. The dynamics of Why everything goes Where!

<input type="checkbox"/>	Wednesday, Mar 16	8:00 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Thursday, May 19	8:00 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, Jul 13	8:00 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601

Control Basics,

by **Michael Ericksen (Ike)** (\$50 4 hour minimum Lunch)

Learn the purpose of / how to install zone switching controls for pumps and zone actuators, outdoor reset basics, mixing strategies, variable speed circulators and more.

<input type="checkbox"/>	Wednesday, Mar 09	8:30 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Wednesday, May 04	8:30 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601
<input type="checkbox"/>	Tuesday, Aug 23	8:30 am to 12:30 pm	JTG Muir, 4723 Tidewater Ave. • Oakland, CA 94601

Condensing Boilers and Water Heaters.

by **John Grose** (\$25 4 hour, Lunch)

Beyond the Munchkin! A technical presentation of the Munchkin, Elite, Phoenix, Versa-Hydro, Pioneer, ModCon, Solar, and other heat sources. Installation issues such as venting, piping, controls, gas, and combustion air will be discussed.

<input type="checkbox"/>	Thursday, January 20	12:30 pm to 4:30 pm	Lake Tahoe Unified School District (Board Room) 1021 Al Tahoe Blvd South Lake Tahoe, CA 96150
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YES! *I want to attend*
(Choose your registration method below)

Use the check boxes next to each class to indicate the one(s) you would like to attend and then fax back the pages with information filled out below

° Fax in your registration to 510-434-3140 ° Call in your registration! (800) 493-8432

* Complete location information and class details will be sent upon registration

Name _____ Company _____

Address _____ City _____ State _____ Zip _____

Phone (____) _____ Fax(____) _____ Email _____

Credit Card # _____ Exp. Date _____

PO # _____