



The Harris Products Group Brazing Workshop

**A two-day course to improve
brazing skill and provide a solid
background in brazing fundamentals.
Designed for trainers, engineers,
operators and managers.**



The Harris Products Group Two Day Brazing Workshop

- ▣ **Introduction:** Course Description
 - ▣ **Safety:** Equipment, Fuel Gas Mixtures, Ventilation
 - ▣ **Lectures:**
 1. Brazing Principles - Definitions, Capillary Action, Wetting
 2. Cleaning, Heating Technique, Applying Filler Metal
 3. Filler Metals, Compositions, Forms Applications, Simple Phase Diagram
 4. Base Metals and Filler Metal Selection
 - ▣ **Workshops:**
 1. Hands on Brazing - Copper
 2. Hands on Brazing - Brass, Steel, Dissimilar Metals
 3. Hands on Brazing - Stainless Steel, Aluminum
 4. Hands on Soldering - Copper Tube, Aluminum
 5. Hands on Brazing - Copper Tube
- ▣ Participant Problems
 - ▣ Test Braze - Pressure Test
 - ▣ Written Exam

TIME: 9:00 a.m. to 4:00 p.m.

\$490.00 per person: Includes course materials, refreshments, lunches and certificate

A \$200.00 deposit is required for registration with the balance due on or before the workshop date. Registration fee will be refunded within 15 days notice of cancellation prior to start date. Harris Products Group will provide lunch on both days.

Transportation, lodging and other expenses are the responsibility of the participant.

INSTRUCTORS:

Robert Henson

Harris Products Group Technical Director has 30 years of metal joining experience. He co-authored a solder patent and has had several articles published. He is a member of the American Welding Society (AWS), and chairs the subcommittee that writes brazing filler metal specifications. He is a member of the Skills USA HVACR technical committee.

George Benyak

Mr. Benyak has over 40 years hands-on experience in metal joining. George's background includes extensive development and training in soldering, as well as training in soldering and brazing equipment and applications.

Mike Scruggs, Mark Koetter

Harris Products Group Technical Department.

The Harris Products Group - Brazing Workshop Registration

Name _____ Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Harris Products Group, 4501 Quality Place, Mason, OH 45040-1971 - Phone: (513) 754-2000

Workshop dates:

Will be announced on our website - www.harrisproductsgroup.com

\$490.00 per person: Includes course materials, refreshments, lunches and certificate

Payment Enclosed

Bill My Company