



Oct. 5-6, 2010 • Orlando, Florida

Furnaces North America Technical Training Survey

The following are the results of a survey performed by the Metal Treating Institute and Industrial Heating Magazine to discover what commercial and captive heat treaters believe are their current technical training needs for 2010. This provides your company as an exhibitor some guidance as to where to focus your training session you may seek to present at FNA 2010. Applications for sessions are being accepted through March 22 for consideration by the FNA Conference Committee. The Technical Session Application is available at www.furnacesnorthamerica.com.

If you have any questions, please contact the FNA Show Offices at 904-249-0448 or info@callmti.com.

TOP RATED TOPICS IN ORDER OF IMPORTANCE

1	Heat Treat Systems	46.63%
2	Energy Efficiencies	43.56%
3	Emerging Technologies in Furnace & Heating Equipment	41.72%
4	Minimize Your Heat Treat Costs	37.42%
5	Maintenance and Repairs	36.20%
6	AMS 2750D	30.06%
7	Instrumentation and Automation	29.14%
8	Certifications - NADCAP, ISO, CQI-9	27.91%
9	Burners and Heating Element Purchase, Use and Maintenance	26.07%
10	Surface Treatments	24.85%
11	Materials Characterization, Hardness and/or NDT	23.91%
12	Best Practices: Auxillary Heating Equipment & Components	22.39%
13	Lean Manufacturing	22.09%
14	Advances in Insulation and Refractories	22.09%
15	Induction	20.86%
16	Workplace Safety and the OSHA Audit	19.02%
17	People Management	18.40%
18	Customer Service	16.26%
19	Quenchants	15.95%
20	Education of Customer (PO Requirements)	15.95%
21	Quality Program Compliance Issues	13.50%
22	Parts Cleaning	13.50%
23	Heat Treating of Non-Metallics	12.58%

FURTHER COMMENTS

- 1 What's new in maintenance technology?
- 2 Improvements in quench mediums to minimize distortion and practical field studies to demonstrate effectiveness
- 3 Improvements in the design and use of vacuum heat treat and gas quench systems to accommodate one piece flow in the manufacturing work cell(s)
- 4 Vacuum Brazing Best Practices?
- 5 Need more information about pyrometry
- 6 Confidentiality and Non Disclosure Issues - When information becomes Proprietary
- 7 Safety for Industrial Heat Treat Furnace Heat Treating Industry Regulatory Compliance
- 8 Deformation of polymer quenched parts (rings)
- 9 Finding leaky tubes in continuous lines with multiple burners
- 10 Atmosphere generator operation & maintenance
- 11 Selecting the right Combustion Service/Preventative Maintenance Programs
- 12 Heat Treat Fixturing best practices and comparisons with other material options and/or design configurations.
- 13 Field heat treatment, pre & post weld heat treatment of welded fabrications
- 14 Furnace upgrades and/or retrofits to existing equipment with either insulation, controls, or better engineering
- 15 New processes such as laser heat treating
Actual "cost vs benefit" for reductions in fuel usage and emissions of
- 16 furnaces using methods such as: preheated combustion air, FGR, pulse firing, and oxygen.
- 17 New design of job specific HT and quench vs. conventional services
Alternative heating & energy generative technologies/methods besides
- 18 conventional sources/furnaces (i.e. Green methods - microwave, solar, wind, wave energy systems)
- 19 Technical software to control heat treat
- 20 Chemical reactions that occur during heat treatment
- 21 Getting the most out of small shop heat treating equipment...non-vacuum ovens
- 22 Vacuum technology
- 23 Evaluation of Microstructures of heat treated materials. Understanding Inner Granular Oxidation, how to identify it and how it is generated.
- 24 Alloy repair, tubes, retorts, baskets. Can it be done successfully? Is there any cost savings in doing so?
- 25 NFPA 86