A SMACNA Chapter Education Program

The Effects of Schedule Compression on Labor Productivity

Dr. Hanna will present quantitative methods to calculate the effect of overtime, overmanning and second shift on labor productivity for sheet metal contractors in this 4 hour program. Participants will learn types of schedule compression/acceleration, the economic impact of acceleration, recoverable acceleration costs, methods of pricing acceleration, methods of quantifying the impact of schedule acceleration, and strategies for minimizing the economic consequences of schedule acceleration.

Target Audience: Vice Presidents, Senior Project Managers, Department Heads, Project Engineers, Controllers, anyone wanting to learn successful tips for the prompt recovery of changes.

Presented by
Awad Hanna, Ph.D.

Tuesday, May 11, 2010
8:30 a.m. — 12:30 p.m.

No charge for Member Firm Attendees.

Bay Area SMACNA Training Room
7677 Oakport Street, Suite 1110, Oakland, CA 94621
510-635-8212

Please register via fax to 510-635-0320 or e-mail npirrone@bayareasmacna.org

Name ______________________ Company ______________________
Phone ______________________ Fax ______________________
Attendees ______________________
Email: ______________________ Total # Attendees ___________
The Effects of Schedule Compression on Labor Productivity

Sheet Metal and Mechanical contractors confronted with the need to compress a construction schedule face the potential for extreme difficulties. One of the more difficult problems associated with planned schedule compression is the associated delays, disruptions, and partial work suspensions that are commonly concurrent which leads to unplanned compression. Planned and unplanned schedule compression can be thought of as a reduction from the normal experienced time or optimal time for the type and size project being considered.

SMACNA proudly presents a new educational offering, the “The Effect of Schedule Compression on Labor Productivity” seminar. This program will present quantitative methods to calculate the effect of overtime, over-manning and second shift on labor productivity for sheet metal contractors.

What You Will Learn:

- Types of Schedule Compression/Acceleration (Mandated acceleration and Constructive Acceleration)
- The Economic Impact of Acceleration
- Recoverable acceleration costs, including labor, Materials, overhead including extended or unabsorbed, and impact cost.
- Methods of pricing acceleration
- Methods of quantifying the impact of schedule acceleration
- The New Horizon Foundation study including the impact of overtime, over-manning and second shift
- The “factor (cause and effect) approach
- Demonstration of the use of impact charts and software
- Strategies for minimizing the economic consequences of Schedule Acceleration
- Examples and case studies

About the Instructor:

Dr. Awad S. Hanna, Ph.D., P.E., Dr. Hanna is the principal author and investigator of the cumulative impact and schedule compression studies. He is a professor and chair of construction engineering and management program at the University of Wisconsin-Madison, Department of Civil and Environmental Engineering, holding M. S. and Ph.D. degrees from Penn State University. He is a registered professional engineer in the U.S. and Canada and has been an active construction practitioner, educator, and researcher for over 30 years. Dr. Hanna has taught more than 300 successful seminars and workshops in more than 35 states on topics such as change order impact, project scheduling, estimating, labor productivity, and construction delay claims. He has been involved with construction management and dispute resolution on a wide variety of engineering, consulting, and construction projects, worldwide.