



# PIPELINE

FUEL FOR YOUR BUSINESS

SEP/OCT 2016

THE NEWSLETTER OF UTAH'S HVACR INDUSTRY

153 SOUTH 900 EAST, #3 • SLC, UT 84102 • WWW.UTRMGA.ORG

## TECHNICIAN CODE UPDATE TRAINING

3 Hours  
Continuing  
Education

WEDNESDAY, SEPTEMBER 7 • 5-8 PM

Simulcast  
in  
St George!

RMGA MEMBERS ARE INVITED to attend a **Code Update Training** at **RSD Refrigerant Supply** for dinner beginning at 5:00 PM, followed by the class. This course covers recent code adoptions and changes (adopted by Utah on July 1, 2016) to:

- 2015 International Residential Code
- 2015 International Fuel Gas Code
- 2015 International Mechanical Code
- Attendees will be provided with IFGC, IMC and IRC codebooks

**TRAINING HELD AT:**  
**RSD Refrigerant Supply**  
**12654 S 125 East**  
**Draper, UT 84020**

Three hours of Continuing Education, dinner, and 2015 code books provided for only \$35! Register at [www.utmga.org](http://www.utmga.org) or call RMGA at 801-521-8340 to RSVP.

## NEW INTERACTIVE RMGA WEBSITE

- ➔ Great new tools to improve your business presence
- ➔ Link your own business website to RMGA site
- ➔ Free banner ads
- ➔ Easy to navigate
- ➔ Fun to use!



## MANUAL J, D AND S TRAINING

Don't miss this excellent opportunity to learn principles of heat transfer, R-values and U-values to perform load calculations; then apply to duct sizing and system designs, including airflow for constant volume systems and zone applications. You will also learn procedures to select and size residential systems in multi-stage and modulating furnaces and air conditioners.

Not only do you get this excellent training, you also get the J, D and S manuals, which would cost over \$240 if you purchased them separately.

We offer all three classes for only \$175 (\$75 for one class) and that includes the instruction, lunch and the code books! **Sign up today, RMGA will not be offering these classes again until 2018!** ■

CLASS DATES  
ON PAGE 2



## MESSAGE FROM THE PRESIDENT

RYAN SNOW, RMGA PRESIDENT

Ryan Snow  
 ryan@timeforcomfort.com  
 801-224-8899  
 westernheatingair.com

*Hello RMGA Members & Friends,*

*The Fall months in Utah are my favorite. The fishing gets better, football is back, along with cooler temperatures and great hunting. The down side is that it can affect the trades and our demand service calls leaving us trying to find ways to keep our guys busy. So, what should you do now that things have slowed down from the hot busy summer? In the popular book, The 7 Habits Of Highly Effective People, Stephen R Covey talks about habit number 7: sharpening your saw. The Fall is a great time to have some time away from the business and recharge. It is also a great time to do some much needed training to get ready for the cold months ahead. The RMGA is offering several classes this fall that will help our field employees be better at what they do. There are also many classes that are being offered by the various supply houses that we should all take advantage of.*

*I hope you take advantage of the slower times to "sharpen your saw" so that you can have a great productive winter.*

## RMGA 2015-2016 OFFICERS & BOARD MEMBERS

### PRESIDENT

RYAN SNOW  
 Western Heating & Air Conditioning  
 ryan@timeforcomfort.com

### VICE PRESIDENT

RYAN RENTMEISTER  
 Rentmeister Total Home Service  
 Ryan@rentmeister.com

### PAST PRESIDENT

BRENT URSENBACH  
 Salt Lake County Building Inspector  
 BUrsenbach@slco.org

### DIRECTORS

RICK CARMAN  
 Carman Refrigeration  
 rick@carmanrefrigeration.com

DAVID Y. CLAYTON  
 Hercules Industries  
 dclayton@hercmail.com

DEAN DYATT  
 Johnstone Supply  
 Dean.dyatt@johnstonesupply.com

TRINA HANSEN  
 Ogden-Weber Applied Tech. College  
 hansent@owatc.edu

NED HART  
 Fortis College  
 nhart@fortiscollege.edu

BRAD LAVENDER  
 Relevant Solutions  
 brad.lavender@relevantsolutions.com

CHAD LEWIS  
 Questar Gas  
 Chad.Lewis@Questar.com

JAMIE SCHUMACHER  
 Gunther's Comfort Air  
 jamie@gunthers.com

WILL PIERCE  
 Davis Applied Tech College  
 will.pierce@datc.edu

LORI STEWART  
 Mountainland Applied Tech. College  
 lstewart@mlatc.edu

JASON TANNER  
 Triple T Heating & Cooling  
 jtanner@tripletheating.com

RALPH TASKER  
 Salt Lake Community College  
 ralph.tasker@slcc.edu

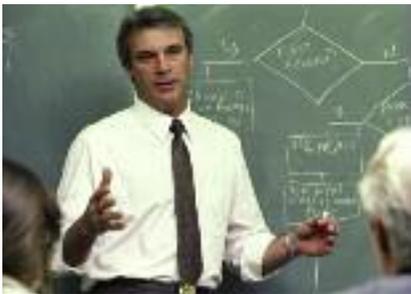
BRIAN TEMPLIN  
 ESCO  
 bwtemplin@gmail.com

CLAY THORNTON  
 Thornton Plumbing & Heating  
 clayct@floor-heat.com

### RMGA EXECUTIVE DIRECTOR

JOHN HILL  
 Hillgmt@aol.com

## RMGA FALL EDUCATION CLASSES



Call 801-521-8340 to register for all classes

### Load Calculations/Manual J

Thursday, September 8  
 8:00 am - 3:30 pm

### Duct Design/Manual D

Thursday, September 15  
 8:00 am - 3:30 pm

### Equipment Selection/Manual S

Thursday, September 22  
 8:00 am - 3:30 pm

All **Manual** classes will be held at:  
 Relevant Solutions  
 3186 S. Washington St. (230 W.)  
 Salt Lake City

All 3 classes for \$175 • 1 class for \$75 •  
 1 class for \$30 if you have manuals!  
 Price includes training, manuals  
 and lunch!

### Gas Certification Classes

Friday, November 11 &  
 Saturday, November 12  
 8 am - 5 pm

Review and Exam  
 Saturday, November 19  
 8 am - 4 pm

Questar Gas  
 1000 West 100 South  
 Salt Lake City

\$300 member • \$375 non-member  
 Price includes books, testing fees  
 and lunch!

# SAFETY CORNER:

## Preventing Sprains and Strains

— By Brian Cook

Over six million injuries occur in the workplace every year. Sprains, strains and tears to muscles and connective tissues are some of the most common injuries workers experience.

Sprains and strains can result from lifting injuries, being hit by fallen objects or even a simple misstep. Overusing your muscles can also cause these injuries. Protect yourself and others from these painful injuries by always practicing safety on the job.

### Sprains



Sprains occur when a ligament has been stretched too far from its normal position. Sprains of the fingers, wrists, knees and ankles are most common.

### Strains

Strains are the result of pulling too far on a muscle or by pulling a muscle in one direction while it is



contracting. Strains can also be caused by repetitive movements that lead to an over-stretching of muscle fibers. Strains of the back, neck, groin and hamstring are most common.

### Tips for Prevention

To help reduce your risk of sprains and strains while on the job, keep these tips in mind:

- Follow guidelines for safe lifting, especially if your position requires you to lift heavy items.
- If you are lifting something particularly heavy, use extreme caution. When in doubt, ask for help with the lift.
- Reduce repetitive movements if possible; chronic strains are usually the result of overuse.
- Use proper form while completing tasks—extensive gripping can increase the risk of hand and forearm strains.

- Practice safety measures to help prevent falls. Avoid slippery surfaces, and always use harnesses and nets if applicable.
- Wear proper attire, including footwear, gloves and other applicable protective equipment.
- Consider your posture when sitting for long periods of time; maintain an overall relaxed position.
- Maintain a healthy fitness level outside of work to keep your body strong and flexible.
- Stretch before you begin working, and take short breaks throughout the day to stretch and rebalance your body.

If you have any questions or concerns about sprains or strains, do not hesitate to contact your supervisor.

### Sprain or Strain?

They are not the same. Sprains are injuries to ligaments; strains are injuries to muscles or tendons. Taking the proper safety precautions and lifting techniques while on the job is your best defense against these injuries. ■



# 10 Ways to Lower Your Hiring Costs

## 1. Think twice about the need for a new staffer.

When a position opens at your company, investigate whether you need to hire a full-time worker to fill the slot. Possible alternatives: reassigning duties to employees with less than a full plate or hiring a part-timer or an independent contractor.

**2. Promote from within.** You come out a winner in three ways. You avoid the costs (and risks) associated with an outside search. You demonstrate there's room for advancement at your company—a big morale booster. Plus, the lower position will usually be easier to fill than the higher one.

**3. Convert a temp or an independent contractor.** If your company regularly uses such workers, the ideal candidate may be right under your nose. You already know the qualifications of temps or contractors you've been using, and they already are familiar with your company.

**4. Place ads on job search boards,** such as Monster, CareerBuilder and Yahoo

HotJobs. Also consider professional associations, which publish newsletters with classified ad sections. University career-planning centers are good sources for entry-level workers, as well as those requiring academic training. Just make sure you are open to considering older applicants.

## 5. Screen with telephone interviews.



An initial 15-minute call can help you avoid hours of dialogue with a worker who isn't interested in the job (or that salary). During your conversation, be upfront about responsibilities, salary range and selection criteria. Keep accurate notes of the conversation.

**6. Limit the number of staffers involved in interviews.** Avoid this common mistake: An applicant comes in and ends up talking to an HR manager, a supervisor, the supervisor's supervisor and a potential colleague. If the applicant is lucky, he will be called back for a second interview with more supervisors, maybe

even the CEO. In general allow no more than three people to participate in the initial interview. Then if an applicant seems to be a viable candidate, set up subsequent interviews with additional staffers.

**7. Start an employee referral program.** Offer workers a reward if someone they've referred is hired. The prize can be extra time off or a cash bonus.

**8. Raid the competition.** The ideal employee may work for a competitor. You may find talented individuals already familiar with your industry and your products or services. These workers may fetch a higher salary, but you end up saving on recruiting and training costs. Caution: Be careful that your luring away a competitor's employees is not perceived as being done for wrongful purposes such as destroying the other company's business or obtaining other proprietary information.

**9. Establish a training wage.** Some positions require specialized training first. For those positions, establish a lower training wage and then, say after six months or after passing an exam, increase the person's salary. (Of course, the training wage can't fall below the federal minimum wage.)

**10. Advertise openings on your web site.** But make sure your site meets ADA accessibility requirements. ■



# Time out for a little humor



"I've just been spilling up my image a bit."



"Are you the one recording I spoke to earlier?"

under your arm?"

Mike: "It's a thermos bottle. It keeps hot things hot and cold things cold."

Pat: "So, what do you have in it now?"

Mike: "Two cups of coffee and a popsicle."

## Signs of Intelligent life?

- Sign in a Maine restaurant: "Open seven days a week and weekends."
- In Pennsylvania cemetery: "Persons are prohibited from picking flowers from any but their own graves."
- On a Tennessee highway: "When this sign is underwater, this road is impassable."
- In front of a New Hampshire car wash: "If you can't read this, it's time to wash your car."



"I hope he doesn't ask about that one thing"

"Wow, this one thing really jumps out at me"

## Jack was deeply in love

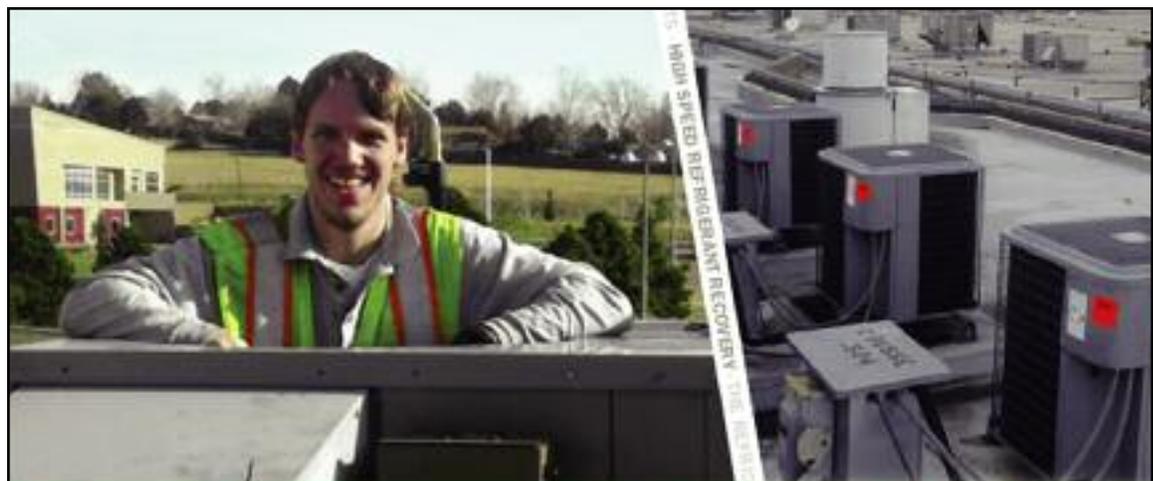
with his wife. To prove his devotion to her he swam the deepest ocean, he crossed the widest desert, and he climbed the highest mountain. But she divorced him...he was never home.

## Mike and Pat

were walking down the street.

Pat: "What are you carrying

**Advertise in RMGA PIPELINE!**  
**This size ad for only \$120**  
**Call Duane Hill @ 801-521-8335**  
**to reserve your space!**



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[www.raprec.com/rfs](http://www.raprec.com/rfs)

**What would easier recoveries mean to RMGA members?** While we are well-known for completing logistically complex nationwide refrigerant recovery projects in record time, we also regularly work with local contractors for day to day recoveries such as recovering a residential unit before repairs are made. Don't assume your job is too large or small, let us simplify your recovery process! Call us!



# MECHANICAL CODE DISCUSSION

## Dryer Venting Updates



**BRENT URSENBACH**

**SALT LAKE COUNTY PLANNING AND DEVELOPMENT**

bursenbach@slco.org  
385-468-6694

BRENT URSENBACH

WITH THE ADOPTION OF THE 2015 International Code Council Codes this past July, a discussion on the new requirements for dryer vents is appropriate. One of the significant changes is the allowance to use a booster fan, for vents longer than the 35' maximum equivalent length limit defined in the code. I realize many of us have used booster fans in the past; however the listing and labeling Standard, UL 705 for use in dryer exhaust systems is a new standard for these fans. Please insure any fans you install in a dryer exhaust system are listed to this standard. Here's the code text:

### **504.5 Dryer Exhaust Duct Power**

**Ventilators.** Domestic dryer exhaust duct power ventilators shall be listed and labeled to UL 705 for use in dryer exhaust duct systems. The dryer exhaust duct power ventilator shall be installed in accordance with the manufacturer's instructions.

### **504.8.4.3 Dryer Exhaust Duct Power**

**Ventilator Length.** The maximum length of the exhaust duct shall be determined by the dryer exhaust duct power ventilator manufacturer's installation instructions.

The mechanical code for many years has required all ducts to be mechanical fastened, and for round metallic ducts,

3 screws, equally spaced around the pipe. Possibly conflicting with is the section on dryer vents, which has



always stated screws or other fasteners shall not be used that will obstruct air flow. A change in the 2012 IRC and now in the 2015 IMC allows screws as long as they do not penetrate the interior of the duct by more than 1/8". This change occurred due to the large number of dryer vents that come apart in concealed spaces, often while cleaning the vent. Stubby 1/4" B-vent screws, after passing through 2 layers of pipe with the inner layer crimped, actual extend into the duct less the rolled end of a factory crimped pipe. The code text for this change:

**2015 Code: 504.6.2 504.8.2 Duct Installation.** Exhaust ducts shall be supported at 4-foot (1219 mm) intervals and secured in place. The insert end of

*the duct shall extend into the adjoining duct or fitting in the direction of airflow. **Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2 mm) into the inside of the duct.***

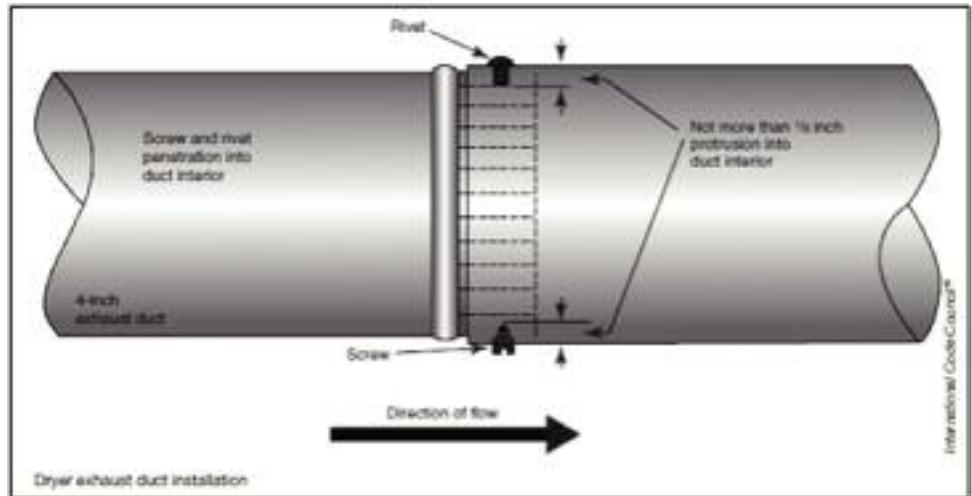
Summarizing key requirements for domestic dryer venting:

- Use 4" round smooth wall metallic pipe—do not oversize the pipe for long lengths. Flex is limited to use as a connector.
- Use Tables 504.8.4.1 (IMC) and M1502.4.5.1 (IRC) for equivalent lengths on elbows, typically 5' for a standard 90° elbow; longer for smooth long radius elbows.
- Maximum equivalent length is 35', unless the dryer manufacturer allows longer lengths. If this exception is used and the duct is concealed, a permanent length label must be posted at the interior connection.
- A backdraft damper must be used at the termination; however no screens are allowed.
- Nail plate protection is required if closer than 1-1/4" to the face of top or bottom wall plates, and must extend 2" below or above the edge of the plate.

- All joints must be mechanical fastened with short screws, rivets or a cinch band/clamp. The joints must also be sealed.
- Support must be provided every 4'.

For additional information on other code updates, sign-up for the RMGA Fall Tech Training and receive copied of the new 2015 Codes!

—See you there, Brent ■



# Ask the Expert?

**MIKE RUSSELL**  
FEDERATED INSURANCE

## Question:

**What is the Federated Shield Network?**

## Answer:

The Shield Network is an online resource for Cyber Security and Risk Assessment, Disaster Planning, Drug and Alcohol-Free Workplace training, Employment Screening Tools, and Training Resources, providing 24/7 access to a wealth of risk management material that helps ensure you are getting the most value out of your premium dollar.

The Training Resources are web-based with mobile capability for easy access from PC, Laptop or Mobile Device. **The Seven Minute Safety Trainer App** is easy to set-up, and provides mobile flexibility for on- or off-site meetings, with meeting

notifications for trainers and attendees, and real-time management of employee attendance.

The app also includes 350+ safety topics that are industry specific, with links to regulatory websites such as OSHA, DOT and EPA.

## Question:

**Does the Shield Network provide Employment resources as well?**

## Answer:

Yes, Federated has developed an Online resource, including Employee Handbook Tools, HR Forms and Checklists, Employment Law Posters, and Web-Based Training in employment law issues. The



Network also provides Live Support, with access to independent employment law attorneys for specific questions.

## Question:

**How do I learn more about Federated's Shield Network?**

## Answer:

Visit [www.federatedinsurance.com](http://www.federatedinsurance.com), or call 1-800-533-0472 for more information. We also have five local Federated Representatives covering the State of Utah for RMGA members. ■

Mike Russell can be contacted at:

**480-216-5445 or**  
**[mdrussell@fedins.com](mailto:mdrussell@fedins.com)**



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SALT LAKE CITY, UT 84102

RETURN SERVICE REQUESTED

**Tech Training -  
Code Update  
Wednesday, Sep 7  
Full details inside!**

## Welcome New RMGA Member!

### RADIANT HEATING COMPANY, INC.

Art Hovley  
426 South 300 East  
Centerville, UT 84014  
801-292-1385



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today.



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