

RCAW Roofing Safety, Training & Technology Expo  
Assigned SHIP grant #  
Funding Period: June 30, 2009

Project Contact Person: Donald Vose  
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Roofing Contractors Association of Washington

Date: June 30, 2009

Donald Vose



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## PART I

### *Final Report Narrative*

#### **Organization Profile**

Since 1965 the Roofing Contractors Association of Washington (RCAW) has worked to improve the roofing industry. Our membership base consists of residential and commercial roofing contractors, manufacturers, distributors and industry professionals. The RCAW Mission Statement is: The Roofing Contractors Association of Washington exists for the purpose of advancing the roofing industry in an ethical and professional manner throughout the State of Washington. The RCAW has a long history of providing industry-leading safety training to the roofing industry.

#### **Abstract**

Roofing is a high hazard industry. Data from the Department of Labor & Industries shows that roofing related injuries and the cost to treat these injuries increased every year from 2002-2007. There have also been significant changes in Washington State safety regulations such as heat illness prevention and crane safety that have a direct impact on roofers. In an effort to prevent injuries to workers in the roofing industry, the RCAW added more safety training options to their annual Expo. Attendees were required to attend at least two core safety classes when they attended the Expo. The core safety classes offered were;

1. How to Avoid Roofing Ergonomic Injuries.
2. Fire Prevention Safety.
3. Fall Protection Refresher Course.
4. Heat Illness Safety Training.
5. Hilti Powder Actuated Certification Safety Training.
6. PPE for the Roofing Industry.
7. Safety Monitor Training.
8. Accident Investigation.

The 2009 Expo was by far the RCAW's most successful. In 2006 we had 256 roofers pre-register with 154 receiving certificates for successfully completing four classes. In 2007 we had 364 pre-register with 226 certificates. For this year's Expo we had 488 attendees and handed out 328 certificates of completion.

#### **Purpose of Project**

The purpose of the project was to increase roofing worker safety by offering more safety education during the 2009 Expo, thus decreasing on-the-job

injuries and fatalities within the roofing industry in Washington State.

### Statement of the Results

The 2009 Expo was by far the RCAW's most successful. This year we had 488 pre-register and handed out 328 certificates for completion of all four classes. In 2006 we had 256 roofers pre-register with 154 receiving certificates for successfully completing four classes. In 2007 we had 364 pre-register with 226 certificates.

### Evidence of the results

The project was targeted for 350 roofing workers to attend but 488 roofers attended – 139% of the intended goal in a weakened economy. The project handed out 328 Completion Certificates, far in excess of what was originally expected.

Attendee feedback indicated that many appreciated the addition of more safety classes and thought that this was the best Expo to date. The hands-on training was described as clear and concise and observers commented on the engagement shown by students in the classes.

### Project's promotion of prevention

Roofing work and the safety of roofing workers is very much determined by each individual roofer. By successfully training over 328 roofers, these individuals are better positioned to make safe choices while on the jobsite. The trainings equip the roofer with the tools to decrease injuries, illnesses and fatalities.

### Relevant processes

From our experience, we believe the following are critical elements to presenting a successful project like the Expo.

- The facility must be comfortable and welcoming for participants to show-up, stay and participate.
- The event must be extremely well organized in advance so participants know they are getting value for their time.
- Instructors must be well trained trades people who can quickly gain the confidence of participants. The instructors must walk and talk the language of the industry to gain participant confidence.
- Employer support of the event is critical. Employers need to encourage

or incentivize workers to attend the event.

- Great care must be taken to set up real-life mock-ups in a safe environment to build confidence from participants as they learn new/safer techniques.
- Provide enough variety in types of roofing systems to cover the various types of work being done in order to serve the broad spectrum of the industry.
- Food and beverage service must be readily available and the FREE lunch was a hit. Providing lunch ensures that more attendees stay for the entire day.
- Contests always help draw participation.
- Providing **Completion Certificates** is important in providing added value to the participating workers and a reason for the participating workers to participate in the full event.
- Have a great group of volunteer coordinators and volunteers willing to work very long hours for months in advance and at the event. Without the hard work and dedication of the volunteers, this event would not be possible for more than three times what it actually cost!

### Lessons Learned

Holding the Expo at the Puyallup Fair Grounds was the greatest lesson learned. Our prior Expo's were held at Sand Point. The Sand Point facility was old, had a leaky roof, allowed wind inside and was cold. This year's facility was modern and comfortable for all participants. This helped to increase attendance and keep participants in attendance the entire day. This is evidenced by our higher percentage of participants receiving a Completion Certificate than in prior Expo events. A minor negative was that some classes had a difficulty filling in the allotted time for the class. We will examine this and make revisions for future Expos.

### Measures to judge success

Short-term the objective can be judged immediately by the number of participants that attended the Expo and the high percentage who received Completion Certificates. Long-term objectives will be a reduction in claims filed and cost incurred by those claims. The future will answer that.

### Uses

The nice thing about this Expo is that each participant walks away with training that can immediately be implemented in their job. Let's look at each core safety class offered. "How to Avoid Roofing Ergonomic Injuries." The participants now understand what an ergonomic injury is and what they can do to eliminate these types of injuries. Much of what the roofing worker does on a daily basis is

repetitive. Teaching the roofing worker the importance of stretching muscles and recognizing fatigue will avoid Ergonomic injuries.

"Fire Prevention Safety." The roofing workers learned how to identify potential fire hazards and avoid these at their jobs. Examples of this are gas cans left next to a gas compressor thus increasing the likelihood of the gas can igniting into a fire.

"Fall Protection Refresher Course". Falls from an elevated surface are one of the most frequent and costly accidents roofing workers have. This course re-emphasized the techniques on how to install fall protection equipment and use fall protection properly.

"Heat Illness Safety Training". This course taught the roofing workers the symptoms associated with and how to prevent heat illness. The roofing workers learned the importance of staying hydrated.

"Hilti Powder Actuated Certification Safety Training". This course taught the roofing workers how to safely install powder actuated fasteners.

"PPE for the Roofing Industry". This course taught the roofing workers what personal protective equipment was acceptable on the job site. Examples of what is not acceptable are cut-off shorts or slacks and what would be acceptable are denim jeans.

"Safety Monitor Training". This course teaches the roofing workers how to be a Safety Monitor. An example is a person acting as a safety monitor cannot at any time assist a roofing worker such as handing the roofing worker materials needed to complete a task. The safety monitors sole responsibility is to monitor the roofing workers safety.

"Accident Investigation". This course teaches the roofing worker how to properly investigate an accident and how to properly fill out an accident report. By having the roofing worker investigate accidents and their cause, the roofing worker will learn how not to repeat these accidents.

All of the Core Safety Training taught at Expo can immediately be implemented in the roofing workers daily job.

Is there potential for the products of the project to be used in other industries or with different target audiences?

Yes. Any time that you train an individual, that training can be utilized immediately by the individual. Trained

workers often share their safety knowledge with other employees they work with as no worker wants to see a fellow employee injured. The safety information gained at an event like the Expo is also discussed at weekly safety meetings in the industry.

### **Product Dissemination**

The hope is that each participant will take ownership in what they have learned and share that knowledge with their co-workers. This is encouraged by employers at weekly safety meetings.

### **Feedback**

Provide feedback from relevant professionals, stakeholder groups, participants, and/or independent evaluator on the project.

Anthony Bergeson, Attendee writes:

Thank you for the recent roofing expo you put on in March. I am a journeyman union roofer and have attended all of the expos held thus far and can honestly say this was the best one to date. I look forward to next year.

Carolyn L. Vares, Owner Crow Roofing & Sheet Metal, Inc. writes:

I want to commend you on the 2009 Roofing Expo conducted in March. This was by far the best expo to date. It was well organized and you had a great turnout. Our employees have commented on the classes they attended and thought this one was the best.

John R. Kouba, Malarkey Roofing Products writes:

By providing hands on training of an extremely wide variety of roofing applications, systems and most importantly, safety, clients will receive better installed roofing systems and workers will have fewer injuries.

Colin K. Madsen, Madsen Roofing Inc. writes:

I recently attended RCAW's annual roofing expo, and can happily report that it was by far one of the most beneficial experiences I have had in my short time as a member of the roofing community. I personally attended three classes, and found them to be not only informative, but also relevant to current trends and dynamic in their embracement of the changing culture of our trade. I found the courses on safety to be clear and concise in their approach to the subject, and the technical courses and demonstrations were well thought out and ultimately helpful.

I was blown away by the positive responses I got from my crew as well as others attending the event.

Gary Smith, IBA writes:

I attended the RCAW Roofing Safety Training and Technology Expo on March 28, 2009 to observe the event. I saw it as a home run. The event was well organized and the facility was a perfect venue for the Expo. I was very impressed by the number of participants who committed their time on a Saturday to learn safe roofing practices. It was clear that participants were very attentive to the training and information being provided. This was an outstanding event. Keep up the good work.

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Signature \_\_\_\_\_Donald R. Vose\_\_\_\_\_

Date 06/30/2009

## PART II

### ***SAFETY AND HEALTH INVESTMENT PROJECTS*** ***SHIP Final Expenditure Report*** ***Budget Summary***

<b>Project Title:</b>	<b>RCAW Roofing Safety, Training &amp; Technology Expo</b>
<b>Project # :</b>	<b>Report</b>
	<b>Date:06/30/2009</b>
<b>Contact Person:</b>	<b>Donald Vose</b>
	<b>Contact#:</b>
	<b>253-606-9272</b>
<b>Start Date:</b>	<b>03/28/2009</b>
	<b>Project Completion</b>
	<b>Date:03/28/2009</b>

<b>1.</b>	<b>Total budget for the project</b>		<b>\$85,000.00</b>
<b>2.</b>	<b>Total SHIP Grant Award</b>		<b>\$70,500.00</b>
<b>3.</b>	<b>Total of SHIP Funds Used</b>		<b>\$70,500.00</b>
<b>4.</b>	<b>Budget Modifications (if applicable)</b>		<b>\$0.00</b>
<b>5.</b>	<b>Total In-kind contributions</b>		<b>\$14,500.00</b>
<b>6.</b>	<b>Total Expenditures ( Lines 3 + 4 + 5)</b>		<b>\$85,000.00</b>

#### Instructions:

- Complete the Supplemental Schedule (Budget) form first (on the next page).
- The final report must include all expenditures from date of completion of interim report through termination date of grant
- Indicate period covered by report by specifying the inclusive dates
- Report and itemize all expenditures during specified reporting period per the attached supplemental schedules
- Forms must be signed by authorized persons (see last page)
- Forward one copy of the report to **(Name), SHIP Project Manager, PO Box 44612, Olympia, WA 98504-4612.**



***SAFETY AND HEALTH INVESTMENT PROJECTS***  
***SHIP Final Expenditure Report***  
***Supplemental Schedules (Budget)***

<b>Project Title:</b>	<b>RCAW Roofing Safety, Training &amp; Technology Expo</b>		
<b>Project # :</b>		<b>Report Date:</b>	<b>06/30/09</b>
<b>Contact Person:</b>	<b>Donald Vose</b>	<b>Contact #:</b>	<b>253-606-9272</b>
<b>Total Award \$:</b>	<b>\$70,500.00</b>		

**ITEMIZED BUDGET --** How were SHIP award funds used to achieve the purpose or your project?

	Budgeted for Project	Amount Paid Out	Difference
<b>A. PERSONNEL</b>	\$15,000.00	\$15,000.00	\$0.00

Explanation for Difference and other relevant information: N/A

	Budgeted for Project	Amount Paid Out	Difference
<b>B. SUBCONTRACTOR</b>	\$6,250.00	\$7,032.48	\$782.48

Explanation for Difference and other relevant information: The lunch Caterer cost \$1,532.48 more than was budgeted. We provided volunteers to baby-sit rather than hiring a Daycare Provider resulting in a \$750.00 savings.

	Budgeted for Project	Amount Paid Out	Difference
<b>C. TRAVEL</b>	\$500.00	\$767.66	\$267.66

Explanation for Difference and other relevant information: More trips to the project site were needed than anticipated.

	Budgeted for Project	Amount Paid Out	Difference
<b>D. SUPPLIES</b>	\$37,150.00	\$36,944.86	-\$205.14

Explanation for Difference and other relevant information: The Puyallup Fair Grounds provided additional services for the expo at additional expense, however, we were able to reduce other expenses and stay in budget.

	Budgeted for Project	Amount Paid Out	Difference
<b>E. PUBLICATIONS</b>	\$11,600.00	\$10,755.00	-\$845.00

Explanation for Difference and other relevant information: We did not use our entire budget for Publication Ads.

	Budgeted for Project	Amount Paid Out	Difference
<b>TOTAL DIRECT COSTS</b>	\$70,500.00	\$70,500.00	\$0.00

	Budgeted for Project	Amount Paid Out	Difference
<b>INDIRECT COSTS</b>	\$14,500.00	\$14,500.00	\$0.00

	Budgeted for Project	Amount Paid Out	Difference
<b>TOTAL SHIP BUDGET</b>	\$85,000.00	\$85,000.00	\$0.00

	Budgeted for Project	Amount Paid Out	Difference
<b>F. IN-KIND</b>	\$14,500.00	\$14,500.00	\$0.00

Explanation for Difference:

## PART III

### **Attachments:**

**Provide** resources such as written material, training packages, or video/audio tapes, curriculum information, etc produced under the grant.

Also include copies of publications, papers given at conferences, etc.

This information should also be provided on a **CD or DVD** for inclusion in the file.

## Attachment A

### Expo Planning

The 2009 "RCAW Roofing Safety Training and Technology Expo" was the fourth such event that the RCAW has held. Below is a description of how the RCAW planned and prepared for this event.

**Who is the target audience?** The Roofing Contractors Association of Washington (RCAW) is an association that represents roofing contractors, distributors, manufacturers and industry professionals. Our target audience is the roofing workers of not only our member roofing contractors, but all roofing contractors in the State of Washington. This years Expo had 488 pre-registered roofing workers.

**What is the objective?** The Expo objective is to increase roofing worker safety to decrease on the job injuries and fatalities within the roofing industry in Washington State.

**How do you plan to achieve your objective?** The Board of Directors of the RCAW decided that the Expo would include both core safety classes and classes on how to safely work with specific roofing products. It was determined that each participant must receive training in four classes to receive a certificate of completion (328 certificates were handed out at this Expo) and that a minimum of two had to be core safety classes.

**What safety training will you provide?** The core safety training classes provided at the Expo was:

1. How to Avoid Roofing Ergonomic Injuries
2. Fire Prevention Safety
3. Fall Protection Refresher Course
4. Heat Illness Safety Training
5. Hilti Powder Actuated Certification Safety Training
6. PPE for the Roofing Industry
7. Safety Monitor Training
8. Accident Investigation

In addition there were seventeen classes available teaching each participant how to safely work with and install properly specific roofing products.

**Who will provide the training?** The RCAW used the resources available to us from our industry professionals, manufacturers and distributors to provide the qualified individual training personnel.

**What is the location of the event?** The 2009 Expo was held at the Puyallup Fair Grounds. Because of the magnitude of this Expo, this site provided a comfortable environment for the participants, trainers and volunteers.

**Who will coordinate and manage the event?** The RCAW had Misty Chiddick, its' Executive Director, coordinate and manage the Expo, however, this event required many volunteers. Below is a list of committees for our Expo.

- A. Site set-up team
- B. Presenter team
- C. Contest team
- D. Childcare team
- E. Lunch team
- F. PR team
- G. Sign Team
- H. Registration team
- I. Mock-up team
- J. Clean-up team

**What have we learned?** Our Expo ran very smoothly. This was not by accident. We have learned that you have to dedicate time to each task in order for our event to be successful. We provide shirts to the participants, volunteers and trainers. These shirts have to be ordered well in advance of the event. Radio and newspaper ads have to be completed and ordered in advance. The lunch caterer has to be contracted. Signs have to be ordered. Registration forms have to be printed and distributed so participants can register. Lumber needs to be ordered so that mock-ups can be built. Dump boxes need to be ordered for garbage. A significant amount of time and energy goes into an event such as Expo.

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