

Youth Construction Incident Prevention Programs
Assigned SHIP grant #2008-XC-00080
10/2008-10/2009

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Tacoma Pierce County Employment & Training Consortium, dba WorkForce
Central/Pierce County Construction Partnership

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Kristi Grassman



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PART I

Final Report Narrative

Organization Profile

The Pierce County Construction Partnership (PCCP) is a workforce development group specifically addressing the need for qualified, skilled workers in the construction trades. This business-led partnership has fully engaged individuals from industry, secondary education, community and technical colleges, universities, labor, industry association, and the One-Stop Center. Our mission is to develop, implement and oversee strategies that ensure:

- Awareness and/or promotion of construction careers (including business aspects) and training opportunities
- A sufficient supply of new entrants and progression of currently employed construction professionals
- Construction professionals have the skill sets to consistently perform at an optimal level
- Pierce County residents have access to industry specific training that results in employment and career progression

Abstract

In 2006 and 2007, Labor and Industries reported 20 out of 100 injuries were construction related for youth between the ages of 11-24 for the State of Washington (L&I R17802, 2008). Youth workers 18 and younger apply for entry-level jobs in the construction industry with minimal knowledge of safety standards and hazard awareness in the workplace. Youth workers are regularly exposed to the same workplace hazards experienced by their adult counterparts on construction sites. The difference is that youth lack the experience as well as knowledge readily available to identify and avoid safety risks and hazards.

Purpose of Project

Decrease the number of fatalities & injuries related to youth working in construction trades through safety education and prevention training (scaffolding

accidents, equipment-related injuries, falls, exposure to harmful substances/environment, and contact with electrical current).

Over 900 youth ages 14-18 in the Puget Sound region will be exposed to construction safety and hazard prevention awareness through various activities, training and resources provided by the Pierce County Construction Partnership (PCCP) and the Tacoma-Pierce County Employment & Training Consortium (TPCETC).

Statement of the Results:

Planned Outcomes-

600 students attend career day

Additional Activity

Additional Activity

Additional Activity

Additional Activity

75 students receive Job Site Awareness training

Additional Activity

Trudy to receive OSHA 11 Training

75 students receive First Aid & CPR

Outcomes Achieved-

- **1,300** students from the Puget Sound Region were educated on Personal Protective Equipment on a job site at Construction Career Day and given a safety orientation by construction industry professionals.
- **40** students from Mt. Tahoma High School Construction Class participated in a one hour informational session "Teen Safety".
- **70** Graham Kapowsin High School Construction Classes participated in a one hour informational session "Teen Safety".
- **60** female High school students (representing the Puget Sound Region) participated in Pizza, Pop, and Power Tools where they received safety training and then built toolboxes.
- **30** female Jr. High school students (representing the Puget Sound Region) participated in Hot dogs, Hard Hats, & Hammers where they received safety training and then built toolboxes.
- **75** students participated in job site awareness training hosted by Turner Construction (Urban Waters) and Rushforth Construction (Work Opportunity Center) companies.
- **46** students from the summer internship project received Teen Safety Orientation to begin their summer jobs.
- **1** staff completed the OSHA 11 Trainer Certification.
- **18** students completed First Aid & CPR Training.

75 students receive OSHA 11

- **81 students completed OSHA 11 training**

Evidence of the results

- Students performed tasks safely while at Construction Career Day-no accidents or injuries occurred. Exceeded goal by 150%.
- Students in the Puget Sound region high school construction classes have been equipped with prevention strategies that will protect them from injuries or illness in a variety of workplace settings. (*See attached letter from ACE Academy)
- Students in the Puget Sound region have participated in the Youth Construction Incident Prevention Program and received First Aid & CPR as well as OSHA 11 certifications. They are better prepared to enter apprenticeship and employment.
- Students have observed a safe working environment while on a job site and will be able to identify a safe workplace and be aware of hazards.

Project's promotion of prevention

Program staff has provided community outreach to multiple groups of students, organizations, and schools to promote safety awareness for teens. There is a safety promotion on our website at www.buildingyourcareer.com . Our teen marketing campaign resulted in banners and t-shirts which displayed a clear message of construction safety. These items have been distributed to individuals who have completed certifications in the program. Banners are hung in high school construction classes across the Puget Sound Region. A local company, Rushforth Construction requested these same banners to be hung in their job shacks for their employees to practice safety while on the job site.

Relevant processes

Program staff is a part of the career day committee, construction safety day committee, multiple school construction program advisories, and closely connected with the local WAVA (An Association of Career & Technical Education Administrators) group. We are also aligned with the Building & Construction

Trades Council, Labor & Industries, as well as the Associated General Contractors in Pierce County which give us an understanding of relevant industry safety standards.

It is important to have a central point of contact to bring the various groups together in order to provide the most beneficial student training.

Lessons Learned

1. Training for youth must coincide with local school district schedules. For example, spring break was at the same time as the Governor's Safety Day where we had planned to do the job site awareness training. Students and parents were not interested in attending during their vacation.

2. We found that it is not beneficial to hold trainings outside of school hours as the interest level is not high.

3. It worked to partner with the school instructors to create enthusiasm about the training.

4. We learned it would have been a good idea to hold a meeting with the school programs early on in the grant to map out trainings based on the school calendar.

Measures to judge success

Students gained certifications that will help them work safely in environments utilizing equipment and will be able to readily identify risks. These certifications are not easily attainable to youth due to cost and availability of training; with their certifications they are more employable for entry level jobs and apprenticeship opportunities. These trainings will make them more valuable employees who are able to work safely while on the job.

Uses

Trailer and Safety Supplies (safety cones, vests, and hard hats) are available for use across the state. These items have already been utilized by King and Thurston counties for similar safety educational events. The following groups have benefited from these shared items to date:

- Youth Building Tacoma

- King County Career Day
- Satsop-"Try A Trade"
- School to Apprenticeship
- Pathway to Apprenticeship

The safety message is reaching across various groups and impacting students in Washington state. *These items are primarily utilized by the construction industry.

Product Dissemination

Trailer, Construction Career Day Notebook, Safety Pre/Post Test, Washington Youth OSHA 11 Curriculum, Professional OSHA publications (Pocket Digest of Industry Standards for Youth, OSHA standards for general industry, What every supervisor must know about general industry.) OSHA 11 Workbook, are all available to be shared throughout the state. Safety banners are posted in classrooms in the Puget Sound Region; safety t-shirts were distributed to students who completed training.

**Feedback
Construction Career Day:**

"Students were surprised and amazed at all of the heavy equipment and diverse occupations represented!"
*George Aszklar
Bethel High School*

"It was a very well planned and well thought out event. The students were engaged and seem to be talking with the vendors and gathering information."
*William Simons
Peninsula High School*

"Our staff and students came away with excitement for the trades and an eagerness to learn more."
*Shirley Ashpole
Gig Harbor High School*

Job site visits and training:

"Just an awesome experience to see how everything came together. It reaffirmed that I chose the right career and how important job site safety is for the building trades! "

OSHA 11 training:

"I never realized how interdependent the trades were, how they work together safely in the actual construction of the building/structure."

"It was nice to see the actual work environment of the trades and actual work being performed safely."

"Neat experience, I can't wait to get into the trades and start working."

-Graham Kapowsin High School Students

***See letter from ACE Academy Instructor.**

PART II

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

Project Title: Youth Construction Incident Prevention

Project # :	2008-XC-00080	Report Date:	January 24, 2010
Contact Person:	Kristi Grassman	Contact #:	253.583.8815
Start Date:	10/01/08	Project Completion Date:	10/31/09

1.	Total budget for the project		<u>\$74,932.99</u>
2.	Total SHIP Grant Award		<u>\$74,932.99</u>
3.	Total of SHIP Funds Used		<u>\$68,094.74</u>
4.	Budget Modifications (if applicable)		\$ ____ - ____
5.	Total In-kind contributions		<u>\$431,876.00</u>
6.	Total Expenditures (Lines 3 + 4 + 5)		<u>\$501,251.83</u>

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 Jenifer Jellison, SHIP Project Manager, PO Box 44612, Olympia, WA 98504-4612.

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

Project Title: Youth Construction Incident Prevention

Project # : 2008-XC-00080

Report Date: January 24, 2010

Contact Person: Kristi Grassman

Contact #: 253.583.8815

Total Award \$: 74,932.99

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

	Budgeted for Project	Amount Paid Out	Difference
A. PERSONNEL	\$35,253.78	\$35,253.78	\$00.00

Explanation for Difference and other relevant information:

	Budgeted for Project	Amount Paid Out	Difference
B. SUBCONTRACTOR	\$5,050.00	\$4,306.00	+\$744.00

Explanation for Difference and other relevant information:

June 19th modification request: Move \$1,545.91 from travel to hire a subcontractor to help with OSHA 11 training; however we trained 18 students (out of 75 projected) in First Aid & CPR which left us a balance in this section of \$2,400.00 before adding the third subcontractor.

	Budgeted for Project	Amount Paid Out	Difference
C. TRAVEL	\$2,086.26	\$554.97	+\$1,531.29

Explanation for Difference and other relevant information:

June 19th modification request: We have realized cost savings in this budget—schools were able to pay for their own bus transportation to trainings and job sites.

	Budgeted for Project	Amount Paid Out	Difference
D. SUPPLIES	\$20,507.95	\$20,312.73	+\$195.22

Explanation for Difference and other relevant information: A cost savings was experienced in "printed materials".

	Budgeted for Project	Amount Paid Out	Difference
E. PUBLICATIONS	\$12,035.00	\$7,667.26	+\$4,367.74

Explanation for Difference and other relevant information:

We did not need the additional funds to advertise or provide training materials. This is partly due to the fact that we were unable to train all 75 youth in First Aid & CPR. Also we received a discount on OSHA materials that we were not expecting.

	Budgeted for Project	Amount Paid Out	Difference
TOTAL DIRECT COSTS	\$74,932.99	\$68,094.74	\$6,838.26

	Budgeted for Project	Amount Paid Out	Difference
INDIRECT COSTS	00.00	00.00	00.00

Refund ↓ @

	Budgeted for Project	Amount Paid Out	Difference
TOTAL SHIP BUDGET	\$74,932.99	\$68,094.74	\$6,838.26

	Budgeted for Project	Amount Paid Out	Difference
F. IN-KIND	\$131,876.00	\$431,876.00	\$300,000.00

Explanation for Difference:

All the equipment and supplies that went into Construction Career Day and Job Site visits/training were calculated and added up to three times the amount projected for the projects originally.

Job Site Awareness Training

-Student Measurement of Safety Knowledge

Developed by JanAnn Campbell, L&I Safety Consultant

-Safety Educational Materials

**Youth Construction Incident Prevention Program
Job Site/Heavy Equipment Awareness Training**

Name: _____

School: _____

1. Fall Protection requirements kick in at:

- a. 4 ft
- b. 6ft
- c. 10ft
- d. 12 ft

2. What is PPE?

- a. Hard Hat,
- b. Safety Glasses
- c. Ear muffs
- d. All of the above
- e. None of the above

3. Minimum construction site clothing consists of shorts passed the knees and a tank top. T or F

4. Around vehicles what is required?

- a. high visibility outerwear
- b. clothing contrasting the color of the equipment
- c. an alarm (like a whistle)
- d. all of the above
- e. none of the above

5. Operate tools and equipment only that you have been trained on.

T or F

6. A minor (17 and under) can operate the following on a job site:

- a. pneumatic nail gun
- b. skill saw
- c. bob cat
- d. all of the above
- e. none of the above

7. When using a step ladder, which of the following apply: (circle all that apply)

- a. Do not use top of ladder to stand on
- b. Do not use top step of ladder to stand on
- c. Set up in a doorway or passage
- d. Use by leaning against the wall
- e. Use a type I or type II ladder

8. When accessing an upper level, ladder must be secured and extend _____ above that level.

- a. 3 rungs
- b. 3 ft
- c. 4 rungs
- d. 4 ft

9. What is the swing radius of equipment?

- a. how far the boom rotates
- b. the area taken up by the body of the crane
- c. the pendulum motion of a worker after falling off a roof
- d. the motion of operating a hammer

10. Sloping or shoring for trenches and excavations is

- a. 3 ft
- b. 4 ft
- c. 5 ft
- d. 6 ft

11. Safety is _____ responsibility. (Rank in order of importance your answer)

- _____ foreman
- _____ worker
- _____ management
- _____ crew