

Setting up a Facilities Management Apprenticeship Program for seamless succession planning

Facilities Management
The University of Arizona



Apprenticeship Programs in the news

- Wall Street Journal "One key element to a competitive workforce almost entirely overlooked in the U.S. is apprenticeships."
- 2014 State of the Union President Obama stated that he planned to work with business leaders, community colleges, Mayors and Governors, and labor leaders to increase the number of innovative apprenticeships in America.
- DesMoines Register "Apprenticeships work," said Teresa
 Wahlert, director of Iowa Workforce Development. "Not only do
 they provide training to address the middle skills gap, they also
 provide individuals with on-the-job training to a new career."



The Seattle Times Winner of Nine Pulitzer Prizes

EDUCATION LAB BLOG

Education Lab is a yearlong project to spark meaningful conversations about education solutions in the Pacific Northwest.

January 15, 2014 at 5:00 AM

Workforce training: Some programs are stars, others have little effect

Posted by Katherine Long

More than \$842 million in state and federal money was spent on workforce training in Washington state last year, including money for many programs run by the state's 34 community and technical colleges.

So how well do these programs do?

A recently-released report card provides some answers.

Workforce training encompasses 16 program
technical education, apprenticeships
vocational certificates, said Workforce Training
and Education Coord

One of the top-performing programs is apprenticeships. Workers who complete an apprenticeship make, on average about \$63,000 a year shortly after finishing a program. They made about \$19,000 more a year than a control group of people with similar demographics who did not participate, and had an employment rate that was 9.8 percentage points higher than the control group.

Apprenticeships are rare and hard to snag, but they yield a \$91 to \$1 taxpayer return on — in other words, for every \$1 in taxpayer money spent to support the program, the employee will pay \$91 in projected additional lifetime taxes and reduced unemployment insurance benefits.

Other programs with good results:

- Vocational associate of arts degrees and vocational certificates earned at a community or technical college result in an employment rate 10.1 percentage points higher than a control group. These students made about \$29,000 a year — about \$9,000 more than the control group.
- Worker retraining, which provides unemployed workers with job retraining for a new career, results in an employment rate 7.5 percentage points higher than a control group.
 Students who completed training made about \$30,000 a year.
- About 86 percent of high-school students who participated in career and technical education were either in college or employed shortly after finishing the program.

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HR Magazine[®]

From the CEO

Bring Back U.S. Apprenticeships

By Henry G. Jackson

ur country is facing a conundrum. Right now,
11.3 mill on people are in the market for a good
job, Government and bisminess are searching for ways
to put Americans back to work while unemployment
remains stubb-ruly high. And employers are desperately socking individuals with the skills to fill nearly 4
million open jobs. Current projections indicate this gap
between skills needed and talent available will widen
in the near futurer.

One short-term solution: Being back apprenticeships in the U.S.

For centuries, apprenticeships have been a proven way to develop a skilled workforce and build a string working class while generating broad prosperity. Developed nations such as Germany, France and Spain lave to just that and are continuing to do so. But in apprentice may be most widely known a properation may be most widely known a voice of apprentice may be concept of apprentice was abandoned decades ago when the string string the string white older jobs and face well realized lawers.

white-collar jobs and for year college degrees.

Apprenticeships, I believe, must have a place in roday's workdoere. With major challenges like the skills gap and Boomer beain drain looming ever larger, apprenticeships serve as a bridge for transferring knowledge, a training opportunity and an effective talent management strategy to get the job dene.

There are many benefits of the apprenticeship model.

to high-demand careers. They provide invaluable on the job training under the excelage of experienced profession als. And they "e an opportunity to earn a salary solid learning—a make-or-break proposition for his could not or would not pursue professional without it.

Appeneticeship programa apers. They're a way so healt transfer knowledge ! and achieve beemployee.

ope are a Swiss Armyknife solustrational challenges developing a workcompression of the country jobs, tackling unemployticest among youth and other disproportionately affected segments, and boosting the nation's overall economic competitiveness.

Despite these benefits, U.S. apprenticeships are in short supply. According to the U.S. Department of Labor, in 2012 there were fewer than 360,000 apprentices nationwide, many of them in construction and manufacturing. The findings of a 2011 study published in Industrial Maintenance and Plant Operation magazine underscore the point: Although there were I.L million manufacturing jobs in the U.S., there were only 18,000 manufacturing apprenticeships—equivalent to just over a tenth of 1 percent of that workforce.

Appenticeships work beyond manufacturing and blue-collar jobs, as well. Some European countries have expanded the model to additional industries, building pipelines to causers in technology, sursing, finance and more.

Like our counterparts across the globe, the U.S. should invest more in his time-tested training model, think more creatively about expanding it to new incustries and careers, and consider it more seriously as an entry point into today's workforce and a viable alternative to address the undershilled labor market.

The U.S. apprenticeship is an idea whose time has come—again. It's also a stranggy that we, as I-IR professionals, are uniquely qualified and need to lead.

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Apprenticeships, I believe, must have a place in today's workforce. With major challenges like the skills gap and Boomer brain drain looming ever larger, apprenticeships serve as a bridge for transferring knowledge, a training opportunity and an effective talent management strategy to get the job done.





Benefits of an Apprenticeship Program

- For employees:
 - Opens minds and doors to high-demand careers
 - Invaluable on-the-job training with experienced professionals
 - Earn a salary while learning
 - In some instances, schooling at greatly reduced tuition
- For employers:
 - Address critical workforce shortages
 - Custom trained workforce
 - Transfer knowledge from one generation to the next
 - Achieve bottom line benefits:
 - Higher employee engagement
 - Better recruitment
 - Stronger retention



Planning for an Apprentice Program

- Succession Planning
 - Identify the need
 - Articulate the problem and the solution
- Key milestones
- Make alliances
- Project planning Roadmap for success
- Implement



Identify the need

FTF Por Voor

Identified Staffing Shortage in Next 10 Years for 3 Apprentice Program Shops

25

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	Current ## FTE	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Retirement Potential	Total Perce	entage
lectric	23	3	X	1	2	3		1	3				13 out of 23		579
lumbing	20	2			1	1		1	1	2			8 out of 20		40
VAC	12	4	1					2					7 out of 12		58
VAC Mechanical	15 11	5						1		1		1	8 out of 11		73
tilities	funo 20	4			1	1	3	1	2		1	1	14 out of 20		70
heet Metal	D 21	3				1			2	/	1	1	8 out of 14	-	57
aint/Sign	230	8	1	1			2	1	1	1	2		17 out of 22		77
arpentry	21	2	2	2	1	4	4		1				16 out of 21		76
ММ	11	3	1	2	1			1	1				9 out of 11	1	829
(h)	5														
arage/Motor Pool/ mall Engine Shop	10	1	1	1	1		1		1		2		8 out of 10		80

■ FTE F

0												
	1	2	3	4	5	6	7	8	9	10	11	12
-Electric	23	20	20	19	17	14	14	13	10	10	10	10
-Plumbing	20	18	18	18	17	16	16	15	14	12	12	12
-HVAC	23	14	13	12	12	12	12	11	10	8	8	7



Articulate the problem and the solution



Facilities Management

APPRENTICE PROGRAM PLAN

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Key Milestones

- State and Federal Requirements
 - Standards of Apprentice Department of Labor Registered Apprenticeship Program
- Institution Requirements
 - Job Descriptions
 - Compensation
- Funding



Make Alliances

- Apprenticeship Committee
- Funding Source
- Human Resources
- Office of Institutional Equity
- Office of the General Counsel
- Department of Labor
- Local Apprenticeship Programs
- High School Trades Programs
- Job Relocation Services
- Military



Roadmap

- Budget
- Document Development
 - Standards of Apprenticeship
 - Affirmative Action Statement
 - Job Descriptions
 - Work Process Schedule
 - University policy/procedure modifications if needed
- Committee
- Training Plan
- Mentors



Roadmap

- Communication
 - Website (FM and HR)
 - Internal to FM
 - Campus Communication
 - Local Community
- Selection
 - Define Process
 - Aptitude Testing
- Record Keeping

Apprenticeship Opportunities



FACILITIES MANAGEMENT DEPARTMENT

Exciting Opportunities Available In:

- HVAC
- Electrical
- Plumbing

What We Offer:

- Competitive salary and a comprehensive benefit package
- Paid on-the-job training
- The opportunity to work for a world renowned University

Candidate Requirements:

- Must be 18 years of age or older by August 19th, 2013
- One year of experience working in construction, maintenance or other trade setters; OR
- Any equivalent combination of experience, training and/or education approved by Human Resources

For more information on the Apprenticeship Program please visit our website: http://www.fm.arizona.edu/fm-emp-resources/ ApprenticeshipProgram.html

Apply online at: www.uacareertrack.com



Implement

- Regularly Check in
- Invest in Retention
- Open Communication
- Report on Success
 - Apprentices
 - Departmental
 - Alliances
 - Community





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