Recruiting Your Most Important Asset



William F. Maloney & Andrea D. Mitnick University of Kentucky April 1, 2006

Fundamental Questions

Do you get as many good applicants for your apprenticeship program as you would like?

Are you satisfied with the quality of the apprentice applicants?

Do you believe that a better quality workforce can be obtained?



Why is this important?

What is at stake is very simple -





Workforce Needs

Current craft workforce: ~ 5,600,000
200,000 – 250,000 construction workers/year
6200 sheet metal workers/year *How and where will we find them?*



We have a problem

Societal focus on college

- We always want our children to do better than we did
- The way to do this is to go to college
- Everyone does not have to go to college, but everyone needs education beyond high school

Poor image of construction work



Jobs Rated Almanac Evaluation Dimensions

- Environment
- Income
- Outlook
- Physical demands
- Security
- Stress
- Travel opportunities
- Extras, perks, and amenities

Core Dimensions

Jobs Rated Almanac 250 Jobs

- Top 3 1- Biologist 2- Actuary 3- Financial planner Some Others – 51 – Attorney 70 – Mechanical engineer **175 – President of the United States**
 - Bottom 3
 - 248 Cowboy
 - 249 Fisherman
 - 250 Lumberjack

Jobs Rated Almanac 250 Jobs

- Surveyor 173
- Const. Fore. 182
- Carpet Inst. 205
- Painter 215
- Glazier 216
- Drywall fin. 220
- Plasterer 222

- Equip. Op. 224
- Bricklayer 225
- Sheet Metal
 Worker 227
- Carpenter 228
- Roofer 242
- Laborer 244
- Ironworker 247



Workforce 2020

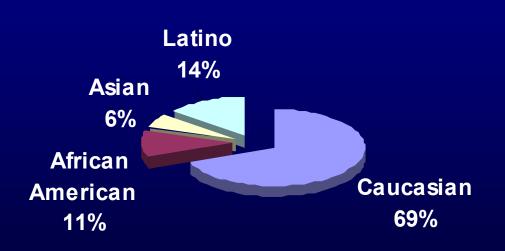
The pace of technological change continues to accelerate

- The rest of the world matters
- America is getting older
- The US labor force continues its ethic diversification



Workforce Breakdown 2020

Workforce By Ethnic Heritage - 2020



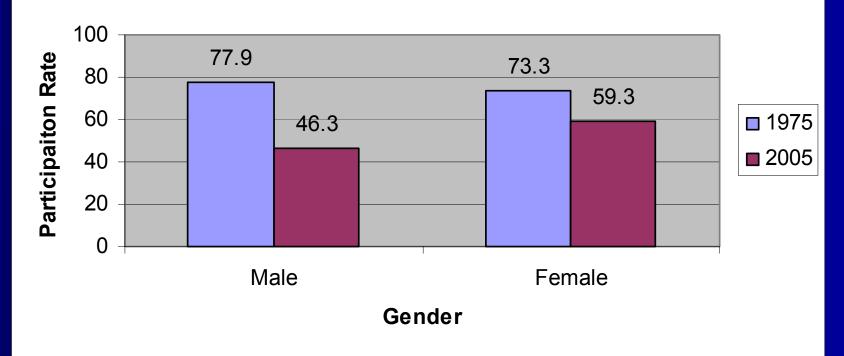


Changing Workforce



Workforce Participation Rate

Workforce Participation Rate by Gender





Birth Rates

US birth rate at 13.9/1000 people is the lowest since records have been kept

Ratio of males to females – 1.06/1 is dropping as fewer males are being born



Ellis Island - 1900



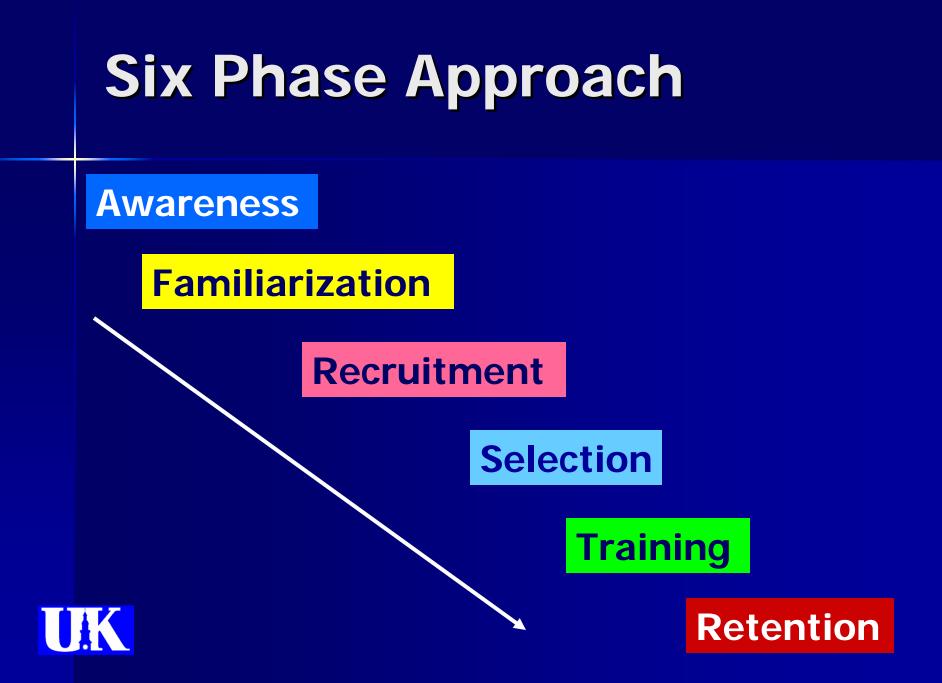


How do we attract people?

Identify qualified and motivated individuals who want to undertake a particular occupation is

- Difficult
- Time consuming
- Process of cultivation that begins with awareness of the occupation







Knowledge of the industry and occupations



Bob the Builder



Construction Jack



Construction Jack the Carpenter comes equipped with the following:

Construction Jack figure Work shirt

Tape measure

Overalls

Tool belt

Steel toe boots

Hard hat Safety glasses Toolbox Hammer Handsaw Work Jacket

Construction Jack the Carpenter

Carpenters make up the largest group of skilled tradesmen in the construction industry. They learn their trade through formal union apprenticeships, informal on-the-job training, or through employer and vocational education programs. This training teaches them how to draft and read blueprints, do layouts, and cut and join wood, fiberglass, drywall and other materials. They learn to saw, nail, join, drill, plane and glue these materials to each other. Some carpenters only work on homes and other residential structures framing walls, partitions, floors, ceilings and roofs. Others only work on large commercial buildings such as shopping malls, offices, stadiums and bridges. They may do concrete forming for footings and foundations, or even cement finishing. Still others only perform remodeling jobs, or make and mend furniture, or install prefabricated components into structures. They may be finish carpenter's helpers, cabinet installers, home renovators, or all of the



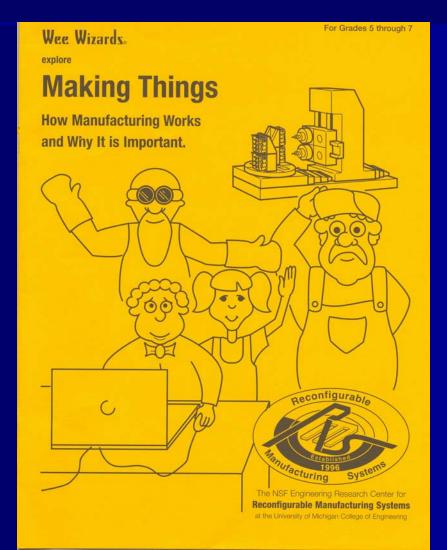
above at one point or another. Many carpenters end up being a "Jack of All Trades" during their career, mastering many different skills along the way.

Construction Jack the Carpenter

Carpenters must be experienced in the use of many different power and hand tools, including saws, drills, chisels and sanders. They must know how to use all of the latest safety tools and equipment. Last but not least, they must be very precise in all of this work, measuring the final results with framing squares, levels and plumb bobs. It takes many years of hard work to master the skills necessary to perform these tasks accurately and professionally. Most carpentry work is physically demanding, often involving work on ladders and scaffolding, lifting and carrying heavy loads, and often performed outdoors in extremes of heat and cold.

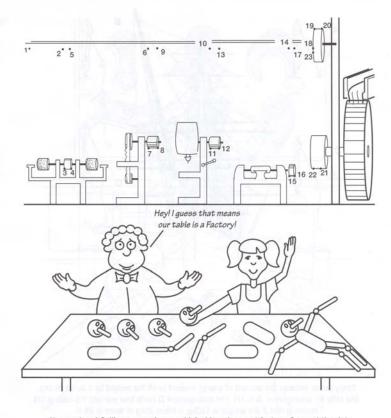


Kids' Awareness





Kids' Awareness

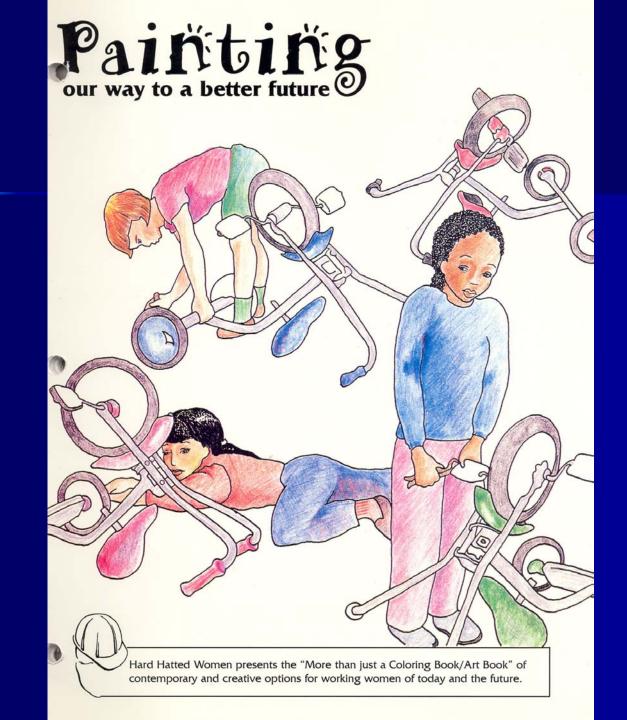


Hayward and Callie are opening an old-fashioned puppet factory. Connect the dots above to show how early factories powered their machine tools.

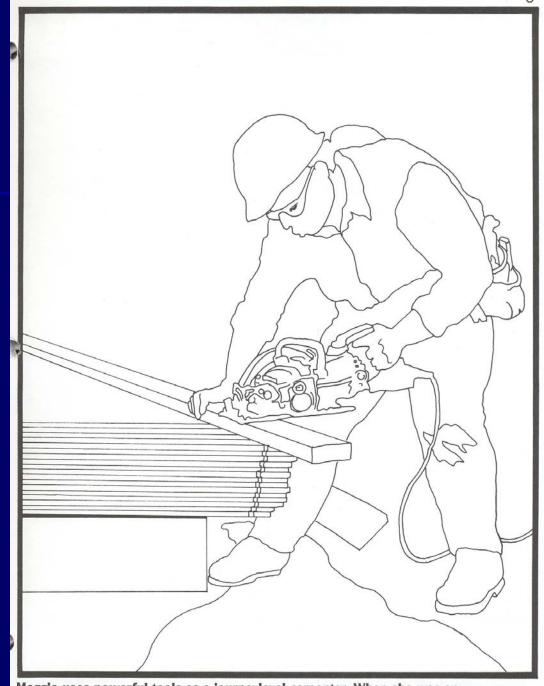
When craftsmen work together to produce the same products their shop becomes a **Factory**. Early factories often used water or steam to power rows of machine tools connected with a long rotating beam called a "line shaft." Line shafts helped them work faster but they still could only build things one at a time.

3

UK



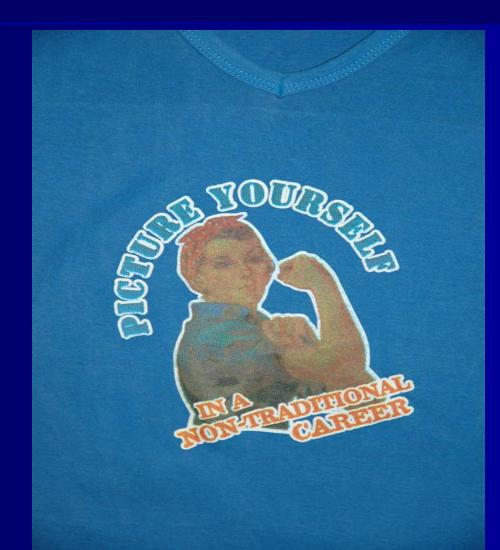






Maggie uses powerful tools as a journeylevel carpenter. When she was an apprentice, she learned all the safety rules and how to use her power tools properly.

Modern Icon





Awareness Recommendations

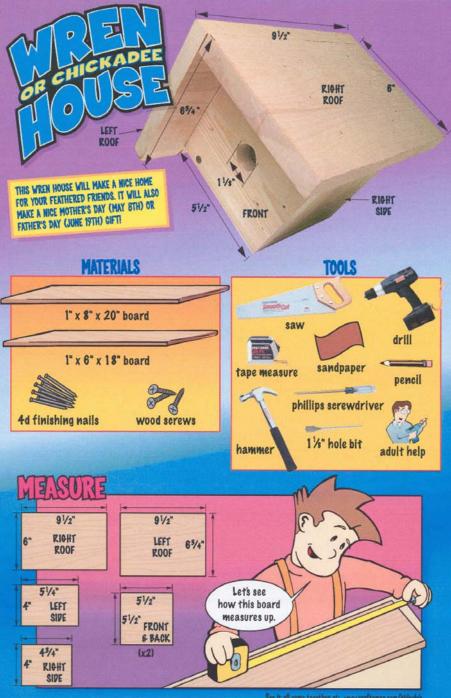
- Sheet metal industry needs to develop awareness materials
 - Construction Jack, sheet metal worker
 - Coloring books
- Develop highly sophisticated Web material
- SMWIA/SMACNA need to work with BCTD and other contractor groups to develop awareness



Familiarization

Knowledge of occupations
 Knowledge of processes and tools
 Knowledge of how to work with the tools







See it all come together at: www.craftaman.com/Ridsciph





inspiring all girls to be Strong, Smart, and Bold

- Girls 8 to 20
- Low to middle income
- 50% girls of color
- Girls only website
- Projects





National Programs

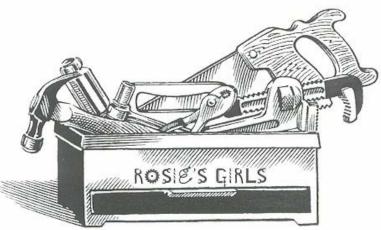
Operation SMART Preventing Adolescent Pregnancy Economic Literacy Sporting Chance Friendly PEERSuasion Project Bold Media Literacy Discovery Leadership



Rosie's Girls



Summer Program for 11 – 13 year old girls



Rosie's Girls

 Carpentry – hammering and sawing – Build toolbox + community project
 Other Trades – electrical wiring, welding, painting
 Arts
 Girls' World







Open to girls entering 10th, 11th and 12th grades

Summer camp – training in welding, carpentry, and electrical drafts

Other five events explore training and educational opportunities

Events Six Times a Year.educationJune ... Girls Construction CampoppoJuly ... Making the Leap to Vocational TrainingOctober ... BE&K Craft OlympicsDecember ... Industry Guest SpeakerFebruary ... Personal Development DayApril ... Girls' Construction Camp Planning Meeting





Boy Scouts of America

11 – 17 year old boys

- Six ranks: Tenderfoot, Second Class, First Class, Star, Life, and Eagle
- Merit Badges



Boy Scout Merit Badges

American Labor Communications Computers Drafting Electricity Emergency Preparedness Engineering First Aid

- Home Repairs
- Metalwork
- Model Design & Building
- Painting
- Plumbing
- Safety
- Surveying
- Woodwork

Metalwork



- Read, discuss, and explain safety rules for metalwork
- Define terms, name metals, explain processes
- Perform seven different metalworking activities
- Visit sheet metal mechanic to explore occupations and careers



Metalwork cont.

Complete one of four options – Option 1 – Sheet Metal Mechanic Name and describe the use of the basic sheet metalworking tools Create a reasonably accurate sketch of two useful objects to make from sheet metal. Include each component's dimensions on you sketch.



Metalwork cont.

- Using patterns provided either by your counselor or made by you, make at least two tasteful objects out of 24-or 25gauge metal. Use a metal that is appropriate to the object's ultimate purpose:
 - Must be constructed using cutting, bending, edging, and either soldering or brazing
 - Must include at least one riveted component
 - If not zinc or tin-plated, protect from oxidation



George Meany Award



It is estimated that one out of every four top unit leaders of Cub Scout packs, Boy Scout troops, Varsity Scout teams, and Venturing crews in the United States is a union member. That's a lot of union Scout leaders. Thousands of other union members serve youth through the **Boy Scouts of America in local** districts and councils, and on the regional and national levels.

If I Had a Hammer



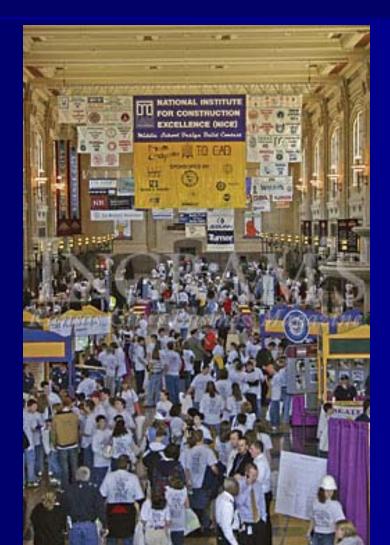


If I Had a Hammer

- Apply classroom concepts in math, science, social studies, and language arts in a real-life context
- Engage in teamwork and communication
- Instruction and tutoring
- Increase math scores 24.5% in some Memphis City public schools

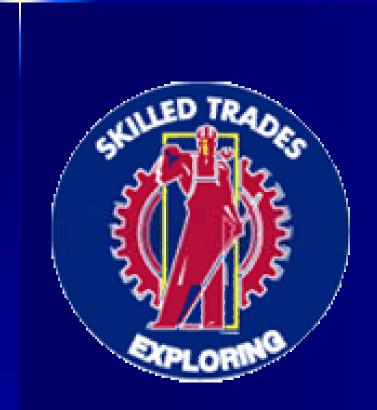


From Crayons to CAD





Exploring







Learning for Life - BSA

- Exploring career education program
- Men and women 14 20
- Provide experiences to help young people mature and to prepare them to become responsible and caring adults
- Local community organizations initiate an Explorer post by matching their people and program resources to the interests of young people in the community



Suggested Program Ideas





Summer Career Camp 7th grade Delcastle High School, Wilmington, DE

- 7-a Building America! Campers will create products using skills they learn in carpentry framing and woodworking, piping, and electrical trades. Campers rotate through a new trade area each day, making items such as wooden chests.
- 7-b Computer "Fun"damentals Campers will learn about the insides of a computer. What makes computers work, computer parts and construction, setting up network systems, using software applications and digital photo enhancers, and creating personalized calendars are all a part of this camp's activities.



Summer Career Camp 7th

- 7-g Sparks & Flames Campers will learn the techniques of basic HVAC (heating, ventilation and air conditioning) and sheet metal fabrication. Campers will work with light gauge metal, piping, and electrical projects, making such items as nameplates and metal toolboxes.
- 7-h The Apprentice Campers take the first step towards starting their own business based on their talents and interests. Campers will create their own company, choose a product to sell, and design an internet advertising campaign.



Pre-Apprenticeship Training

- High schools
- Vocational-Technical schools
- Charter high schools for the trades
- Community & technical colleges
- Pre-apprenticeship programs
 - Tradeswomen groups
 - Urban League
 - Hispanic organizations such as Congreso
 - de Latinos Unidos



Pre-Apprenticeship Training Issues

- SMWIA & SMACNA need to be involved
 - Partnering
- What involvement and how much?
- Credit for training received in the preapprenticeship period



Workforce Development

As you sow, so shall you reap!

- Workforce development is a long-term process involving cultivation of potential workers that requires a commitment of time and money
- Requires both management and labor involvement

 Given the programs identified, how can you get involved?

Outreach Objectives

- Spread awareness of the sheet metal industry, occupations, and careers
- Identify boys, girls, young men, and young women who have the interest and motivation to become sheet metal workers
- Impress upon kids the importance of math and science in school

Track these people!



Recruitment

The process of identifying and reaching individuals with a potential interest in the sheet metal industry



Recommendation

"That a module on how to establish and operate a systematic recruiting program be included in the training provided to local training directors and appropriate members of the JATC at one of the training venues they now attend. An NTF professional staff representative should serve as a point of contact and resource for this effort."

When was this written?





Recruiting

Affirmative action? Original concept How many? – Short term vs. long term What characteristics? What sources? How to reach them efficiently? What media are effective? Use of the Web

Recruiting Recommendations

- Position of Director of Outreach & Recruiting be created within the JATC
- In-depth recruiter training program be developed by ITI
- Completion of training program is a requirement to hold the position
- Youth to Youth participants should used in outreach activities



Nontraditional Recruiting

- Women's groups: Tradeswomen, Inc.; Chicago Women in the Trades; Hard Hatted Women; Wider Opportunities for Women
- Community-based Organizations: Urban League; National Council of La Raza; Asian Pacific American Labor Alliance; Legal of United Latin American Citizens; Coalition of Black
 Trade Unionists

Nontraditional Recruiting

 Ethnic media: newspapers, magazines, radio
 Churches: particularly in the

- Churches: particularly in the African American and Latino communities
- Cable TV



Application

Closure of the recruiting process
Formal submittal of application
Methods

In person
By mail
By Web



Selection

Choosing the applicants with the greatest potential to become outstanding sheet metal workers from the pool of applicants



Selection Criteria

Basic threshold requirements – HS diploma or GED – Over 18 - Driver's license Aptitude test Interview There must be a better way!



Training

The acquisition of knowledge and development of the skills and abilities necessary to perform as a journeylevel sheetmetal worker



Training Recommendations

- On-the-Job apprentice training is haphazard
 - Must become more structured and controlled

 Recordkeeping of OJT activities – National guidelines, Section XVII & XVIII
 Transition to Trainer



Training

Sexual harassment prevention

 Hostile work environment

 The role of the

 Contractor
 Foreperson
 Craft worker



Training

Cultural Diversity & Awareness
Quote: "We're moving from the Old World to the Third World"
How do we deal with it?



Retention

Once we have a qualified, capable person, how do we keep them as apprentices and journeylevel workers?



Minority & women's caucuses

- Independent of union
- Operated as a separate organization
- IBEW examples
- Mechanism for the discussion of relevant issues



Mentoring

- Particularly important for apprentices
- Someone an apprentice can talk with
- The mentor should be someone who has been through the apprenticeship process
- Does not have to a women or minority
- Must understand the pressures and how to deal with them



Union

- A representative of women and minorities must have a position within the union that allows for direct access to the general president
- Same at the local level
- Appropriate language added to union constitution on sexual and racial harassment



Women In The Trades Make a Difference

BUILDING AND CONSTRUCTION TRADES DEPARTMENT, AFL-CIO

Committee of

For further information, please contact: Committee of Women in the Trades Co-Chair Nancy Gentile at ngentile@iupat.org

8



in the des

Committee of Women in the Trades MISSION STATEMENT

The Building and Construction Trades **Department Committee of Women in the** Trades is committed to increasing the number of women in skilled trades careers by promoting strategies for recruitment, retention and leadership advancement. The committee will give voice and visibility to these issues with the Building Trades Department, its affiliates and industry partners.

Union & contractors

- Appropriate language added to collective bargaining agreement
- An office must be established at the national level to develop:
 - Contacts with national organizations
 - Outreach materials
 - Recruiting materials
 - Web design and materials



Contractor

- Need to press for a professional environment on the jobsite
- Need for coordinated action with other site contractors
- Role of forepersons agent of management



Need to provide a system whereby workers can get information on child care and transportation – not just a female issue

Ombuds – need an informal way of settling disputes



Free up hours for good people –

- Top Notch Producers 15%
- Solid Contributors 70%
- Cruise Control 15%
- 3 strikes and you are out
- Provide stable employment



And the beat goes on....

What are your questions? Concerns?







