## Fiet $\mathbf{R e a d i n e s s} \mathbf{C e n t e r} \mathbf{E}_{\text {ast }}$ (FRC East)

Cherry Point, North Carolina


By Richard Borcicky FRC-East Ergonomist

## Elements For Funding

1.) Know your job functions. "Ergonomics"
(Don't guess what is wrong by having the right training.)
2.) Pick your target for an ergonomic survey. (You may only have one opening to demonstrate your abilities.)
3.) It's best to pick a person that stands out front of the number one spot to showcase your ergonomic abilities: i. e. administration person outside the plant Managers office, CO office, etc.
4.) It also helps to pick someone you know, a person that needs your ergonomic assistance and would be willing to work with you to make improvements happen.
$\rightarrow$ Now how does this help me for funding my program? $4<$

## Data

## Data can be also be

Pictures







You may have to have a $5 \mathrm{~S}+1$ lean event. What do the "S's stand for in 5 S Plus One?

1) SORT
2) STRAIGHTEN
3) SHINE
4) STANDARDIZE
5) SUSTAIN
6) SAFETY


## CDERGOchech o monitor

Show reading a paper


The monitor should be placed directly in front of the user at approximately arms length, and angled slightly backward.
The top of the screen should be at eye level or just slightly lower.
Natural light should be directed at $90^{\circ}$ to the screen.





When one has to be on the run, an adjustable workstation allows for faster and easier computer access.



Do you find yourself having headaches, stiff neck and backache due to PNFR "Phone Neck File Reach"?


## Before






## 80 lb Generator

Room for only one person to install the generator in the $\mathrm{H}-46$.
$\mathrm{X}=$ Ergonomic issues


With a use of a lift even a man walking with the use of a cane can do it.


Ergonomic issues Posture,Compression, Duration




Laying out two rows of blades is not only back breaking but can be damaging if the parts hit one another.




0 ft walking
0 turn around
1 sitting up and down


Ergonomic issues $=$ Posture, Repetition, Compression, Duration


## From Design




The adjustment takes away the Posture and Compression. At the same time reduces Repetition and Duration


## Makes for a

 much happier and productive day at work.





Ergonomic issues
Posture, Repetition, Compression and Duration.



## From Design to Reality



Note: Pneumatic manifold with 3 couplings. No falling over airlines.



## Reality




Mobile handling scissor lift table with battery lift operation that enables the operator to place the load at a convenient working height.


Mobile handling scissor lift table with battery lift operation that enables the operator to place the load at a convenient working height. When completed the generator can be lifted into the paint booth using the scissor lift.
(Note: ergonomic stool)



The new design in action, also note the new ergonomic stool.


## Newly Designed

## 3-Wheel Creepers

## "Great" addition to FRC-East






## You can see the

 Ergonomic issues.



We have 42 sit/stand stools throughout FRC East.


Know how to use your resources!


Ergonomic Risk Factors:
Force, Posture, Compression and Duration.




Applying potting compound (sealant)





$$
3
$$

$$
50
$$





## Carpal Tunnel Syndrome Cases at FRC-East over 5 years

|  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| 2004 | 2005 | 2006 | 2007 | 2008 |
| 25 | 26 | 22 | 9 | 5 |



## Above information is as of 125/2008

By Richard Borcicky Ergonomic/Engineer FRC-East, Cherry Point

Back Pain / Hurt Back Cases at FRC-East over 5 years

|  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| 2004 | 2005 | 2006 | 2007 | 2008 |
| 37 | 42 | 48 | 25 | 10 |



Above information is as of 12/5/2008
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Feel free to contact me for any other information:

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