
Best Practices in Promoting a Workplace Culture of Employee Well-being

Jillian Jacobs, MS, ACE-CHC

Wellness Program Manager

Hitachi Astemo Americas, Inc.

August 23, 2022

Agenda

Hitachi Overview

Building a Foundation

360 Degree Wellness Approach

Developing an Ergonomics Program

Evaluating Outcomes

Who We Are



**Transportation & Mobility
Solutions**



Energy Solutions



IT Infrastructure Services



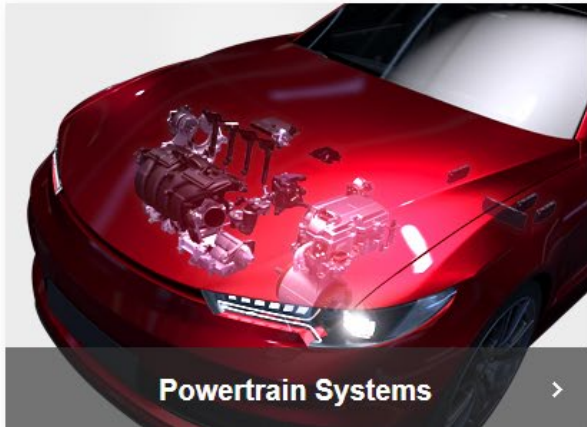
**Social Infrastructure:
Industrial Products**



Healthcare & Lifesciences



**Mining & Construction
Machinery**



Products Developed and Manufactured

HONDA

POWER STEERING



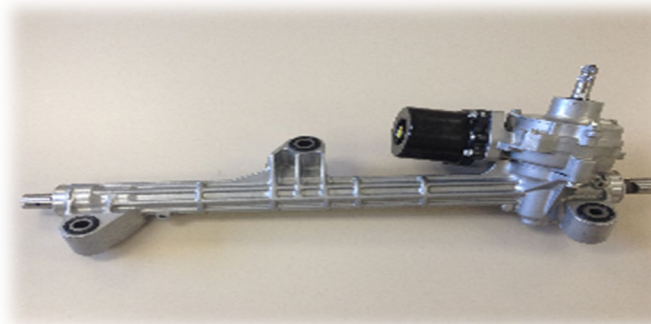
Accord



Civic Si



CR-V



Acura MDX



V-ROD



FLT



XL



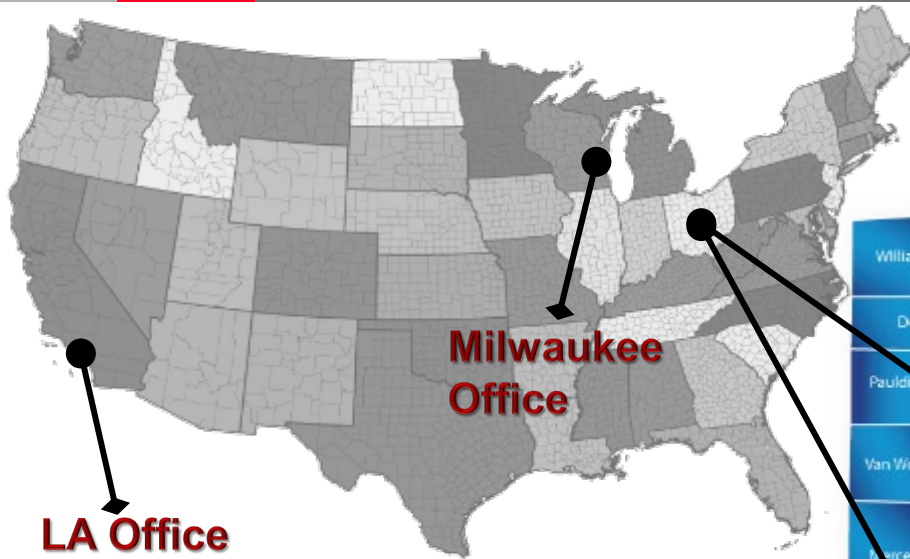
SOFTAIL



DYNA

Astemo

Our Locations



Hitachi Astemo Americas, Inc.



OHIO

24,000 Employees US wide
750 Employees in Ohio
Self-Insured
Industry: Manufacturing



Ranked #1 as a Healthiest Employer in Cincinnati & Columbus, OH

(500-1,499 Employee Category)



Recognition given by:

- Healthiest Employers, LLC
- Ohio Department of Health
- American Heart Association
- Cincinnati Business Courier

• H100 •

2021 Winner

#26

Hitachi Astemo Ohio Manufacturing, Inc.

has been awarded the Healthiest 100 Workplaces in America award for the 2021 nomination period, signaling their commitment to employee health and wellbeing.

Haley Elmore

Haley Elmore
Healthiest Employers
Program Coordinator

What industry do you represent?



Poll Results



Agenda

Hitachi Overview

Building a Foundation

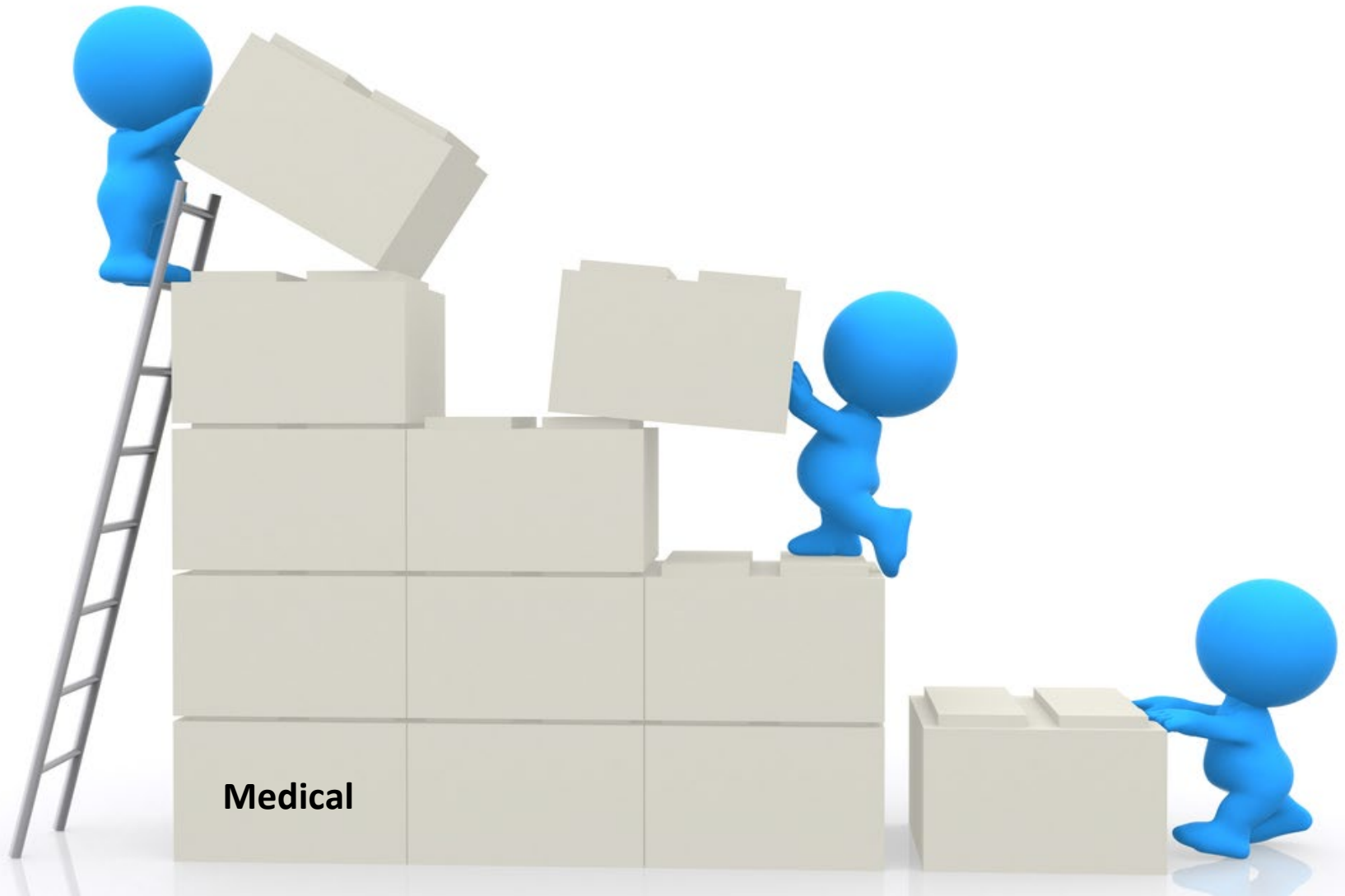
360 Degree Wellness Approach

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Leverage your Resources





Wellness Center Services

OUR SERVICES

- Chronic Disease Management
- Health Coaching Services
- Care for Infections & colds
- Flu & Allergy Treatments
- Well-Child Checkup
- Well-Man & Women Exams
- School & Sports Physicals
- Annual Health Screenings
- Stress Management
- Physical Therapy
- Smoking Cessation
- Routine Blood Work
- Skin Checks
- Adult Immunizations
- Minor Stitches
- Wellness Programs & more

WHO WE SERVE

The Hitachi Astemo Associates' Wellness Center is available to any associate and their covered dependents that are currently enrolled under a Medical Plan offered by Hitachi Astemo.







Do you currently have a medical clinic specifically for employees and/or dependents?



Agenda

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Building a Foundation

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Building a Foundation



What is Ergonomics?

Ergonomics

- Ergonomics is the study of people's efficiency and productivity in their working environment.
- Defined as the science of fitting a workplace to the user's needs, **ergonomics aims to reduce discomfort.**
- Ergonomics (or 'human factors' as it is referred to in North America) is a branch of science focusing on human abilities and limitations, and then applying this knowledge to improve people's interaction with products, systems and environments.

The Study of People's Efficiency



1

Injury Prevention

■ Proactive vs. Reactive Approach

→ Identifying musculoskeletal disorders and mitigating risk factors can often prevent strains, sprains and overuse injuries which is one of the top leading worker's compensation claims in the US.

2

Improves quality of work and life

■ Anthropometry & Biomechanics Research Based

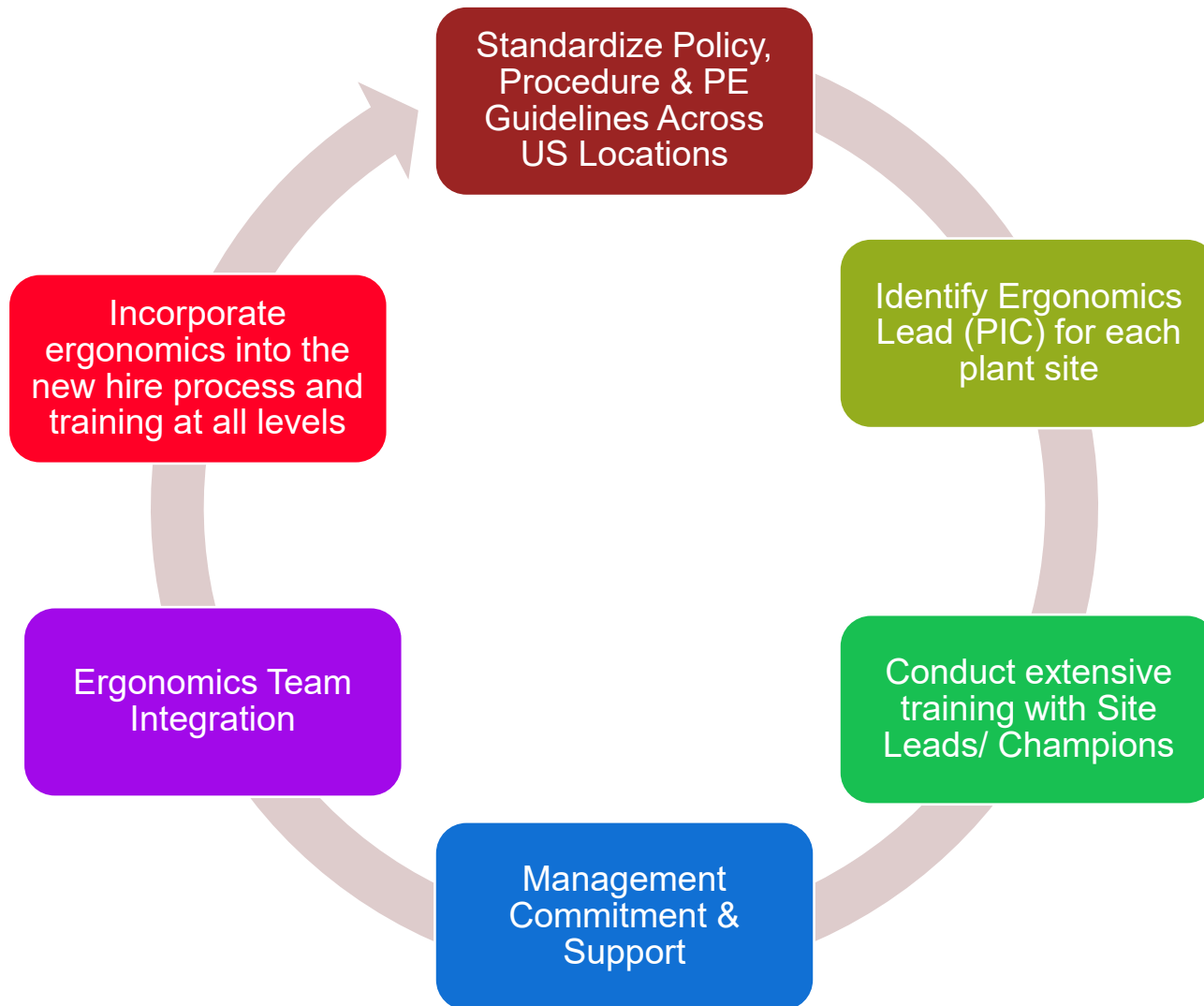
→ Ergonomics aims to create a safe, productive and comfortable workspace by bringing human abilities and limitations into the design aspect.

3

Reduces fatigue and discomfort

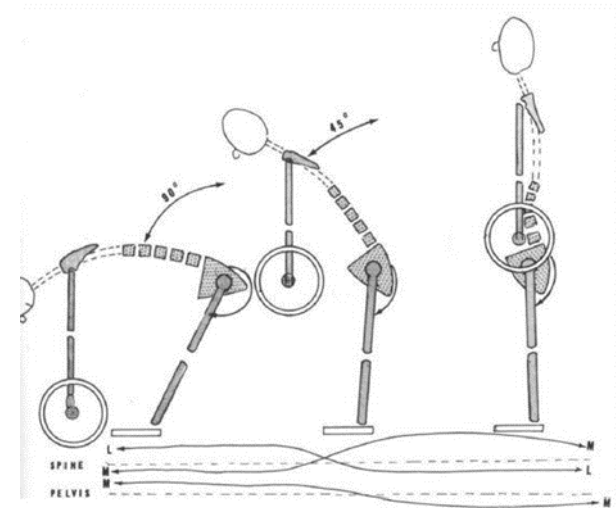
■ Workstation Design

→ Includes the individual's body size, strength, skill, speed, and sensory abilities (vision, hearing).





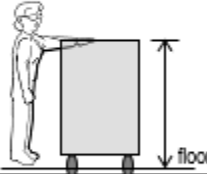
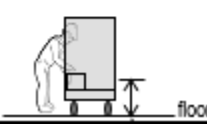

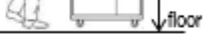
Injuries of the musculoskeletal and nervous systems that may be caused by

- Repetitive Tasks
- Forceful Exertions (Push/Pull)
- Vibrations
- Mechanical Compression/Contact Stress (pressing against hard surfaces)
- Awkward Positions/Excessive Reaching
- Turning/ Twisting of Torso



Other names for Cumulative Trauma Disorders **CTDs** are:

- **Musculoskeletal Disorders (MSDs)**
- Repetitive Motion Disorders (RMDs)
- Overuse Syndromes
- Repetitive Strain Injuries

Racks/Carts	Figures	Green	Yellow	Red
Two-Handed Push Pull (Breakaway) Force for Fully Loaded Rack/Cart	 Fully Loaded	≤ 37.0 lb	43.5 lb	> 50.0 lb
		≤ 16.8 kg	19.8 kg	> 22.7 kg
		≤ 165 N	194 N	> 223 N
Two-Handed Push Pull (Sustained) Force for Fully Loaded Rack/Cart		≤ 17.0 lb	21.0 lb	> 25.0 lb
		≤ kg	9.5 kg	> 11.4 kg
		≤ 76 N	94 N	> 111 N
Maximum Reach During Cart Use (e.g., closing top shelf) Horizontal reach should be ≤ 10-12 in., measured from front of cart	 floor	≤ 61.0 in	64.5 in	> 68.0 in
		≤ 1,549 mm	1,638 mm	> 1,727 mm
Reach Up to Top Shelf (palms facing down)	 floor	≤ 50.0 in	52.5 in	> 55.0 in
		≤ 1,270 mm	1,334 mm	> 1,397 mm
Reach Up to Top Shelf (palms facing up)	 floor	≤ 50.0 in	55.5 in	> 61.0 in
		≤ 1,270 mm	1,410 mm	> 1,549 mm
Reach Down to Bottom Shelf	 floor	≥ 29.0 in	23.5 in	< 18.0 in
		≥ 737 mm	597 mm	< 457 mm
Handle Height (vertical orientation preferred) (if horizontal handles, use 40-44 in.) In some cases, the cart itself (frame or shelving) may provide a suitable handle.	 floor	≥ 36.0 in		< 36.0 in
		≥ 914 mm		< 914 mm
		≤ 44.0 in		> 44.0 in
		≤ 1,118 mm		> 1,118 mm

Production Engineering Check Sheet

Job Process: Department Affected: Description of Change:
--

Item		Select appropriate answer from drop-down	Action Required
1	Will the operator be exposed to temperatures < 40° F or > 90° F		These are general job requirements to be aware of when changing or implementing a process. If any of these are "Red" you must consult an ergonomics representative prior to the implementation of the new process.
2	Are high priority displays mounted between 42-62" for standing work or 22-32" above seat height for seated work?		
3	If palm button controls are used repetitively, are they located below chest height (preferably at waist height)?		
4	How much will the employee need to work lying on their back or side?		
5	Does the employee need to kneel with one or two knees touching the ground to support their body while on this job process?	Yes	If kneeling cannot be eliminated, knee guards must be supplied to the associate(s). See contact stress guideline SAF ERG 24.
6	Will sharp objects, tools or parts of work station put localized pressure on the trunk or lower extremities?	Yes	Usually caused by reaching to get parts. Eliminate with a new container design, lift/ tilt table, turn table or layout improvement. Reference SAF ERG 24.
7	Will hard or sharp objects, tools, or parts of the work station put localized pressure on a small area of the forearm, elbow and/or armpit?	Yes	Eliminate localized pressure with a new container, lift/tilt table, turn table or layout. Otherwise, elbow/forearm pads or installation of padding to the object being leaned onto may be

Example

Identifying Risk Factors-EG000021

Example

HITACHI ASTEMO ERGONOMICS QUICK CHECKLIST					
Department:		Date:			
Position:		Evaluator:			
This is a quick evaluation of possible risk factors at a particular process. Any red or yellow items may require further analysis using other guidelines.					
Body Part	Question	View	Green	Yellow (mid point)	Red
Back	1. Is there severe Back Bending? (bent over 45° or more)		intermittent	< 1/8 of eye/c or < 2 per minute	> 1/8 of eye/c or > 2 per minute
	2. Are Awkward Static Postures held? (view is lower/lower back, neck, shoulder, arms)		intermittent	< 10 seconds per minute	≥ 10 seconds per minute
	3. Are items weighing more than 10 Lbs (4.5 kg) lifted?		no	Yes, refer to SAF ERG-10 Lifting Guidelines	
Hand/Arm	4. Are the Elbow(s) Raised above the shoulder and/or hand(s) above head?		intermittent	< 1/8 of eye/c or < 2 per minute	> 1/8 of eye/c or > 2 per minute
	5. How many Hand/Wrist Motions are there?		< 10 per minute	16 per minute	≥ 20 per minute
	6. What is the maximum Hand Push Forces?		≤ 8.3 lbs ≤ 4.2 kg ≤ 41.4 N	11.7 lbs 5.3 kg 52.0 N	> 14 lbs > 6.4 kg > 62.3 N
	7. What is the Vibration from hand tools?		No detectable vibration	Detectable vibration	Very obvious hand shaking
	8. What is the Pinch Grip force? (It takes about 6 pounds to open a large binder clip 1.4 inch)		≤ 9.9 lbs ≤ 2.7 kg ≤ 28.2 N	9.2 lbs 4.2 kg 40.9 N	> 12.6 lbs > 5.7 kg > 55.8 N
	9. Does the person use their Hand as a Hammer?		none	< 10 per hour	≥ 10 per hour
Other	10. How frequently is the associate exposed to Contact Stress? (localized pressure or force on one spot of the body)		intermittent	< 1/8 of eye/c	≥ 1/8 of eye/c
	11. Does the associate Work on the fir Knees or squat to work?		intermittent	< 1/8 of eye/c	≥ 1/8 of eye/c
	12. What is the Pushing/Pulling force for carts? (one-way force measured with wheels 90 degrees to the direction of push/pull)		≤ 9.7 lbs ≤ 18.9 kg ≤ 193.5 N	48.6 lbs 19.8 kg 193.5 N	> 60 lbs > 22.7 kg > 222.4 N
	13. Is ergonomic anti-fatigue matting located at this operation?		Yes		No
14. If the operation has visual displays (computer screen), is it mounted 42-62 inches for standing work & 22-32 inches above seat height for seated work?		Yes		No	
Score (for prioritization purposes)		Total			
For classification purposes - If one item is red then the job is red, if one item is yellow then the job is yellow, if all items are green then the job is green. Go to page 2 to complete the recommendations section as applicable.					

EG000021 Page 1 of 2 Last Updated 9/20/21

Completed Eval: Grinder Wheel

HITACHI ASTEMO ERGONOMICS QUICK CHECKLIST					
Job Process: Manually flipping all grinder wheels		Date: 10.18.21			
Position: Grinder Technician		Evaluator: Jillian Jacobs			
This is a quick evaluation of possible risk factors at a particular process. Any red or yellow items may require further analysis using other guidelines.					
Body Part	Question	View	Green	Yellow (mid point)	Red
Back	1. Is there severe Back Bending? (bent over 45° or more)		intermittent	< 1/8 of eye/c or < 2 per minute	> 1/8 of eye/c or > 2 per minute
	2. Are Awkward Static Postures held? (view is lower/lower back, neck, shoulder, arms)		intermittent	< 10 seconds per minute	≥ 10 seconds per minute
	3. Are items weighing more than 10 Lbs (4.5 kg) lifted?		no	Yes, refer to SAF ERG-10 Lifting Guidelines	
Hand/Arm	4. Are the Elbow(s) Raised above the shoulder and/or hand(s) above head?		intermittent	< 1/8 of eye/c or < 2 per minute	> 1/8 of eye/c or > 2 per minute
	5. How many Hand/Wrist Motions are there?		< 10 per minute	16 per minute	≥ 20 per minute
	6. What is the maximum Hand Push Forces?		≤ 8.3 lbs ≤ 4.2 kg ≤ 41.4 N	11.7 lbs 5.3 kg 52.0 N	> 14 lbs > 6.4 kg > 62.3 N
	7. What is the Vibration from hand tools?		No detectable vibration	Detectable vibration	Very obvious hand shaking
	8. What is the Pinch Grip force? (It takes about 6 pounds to open a large binder clip 1.4 inch)		≤ 9.9 lbs ≤ 2.7 kg ≤ 28.2 N	9.2 lbs 4.2 kg 40.9 N	> 12.6 lbs > 5.7 kg > 55.8 N
	9. Does the person use their Hand as a Hammer?		none	< 10 per hour	≥ 10 per hour
Other	10. How frequently is the associate exposed to Contact Stress? (localized pressure or force on one spot of the body)		intermittent	< 1/8 of eye/c	≥ 1/8 of eye/c
	11. Does the associate Work on the fir Knees or squat to work?		intermittent	< 1/8 of eye/c	≥ 1/8 of eye/c
	12. What is the Pushing/Pulling force for carts? (one-way force measured with wheels 90 degrees to the direction of push/pull)		≤ 9.7 lbs ≤ 18.9 kg ≤ 193.5 N	48.6 lbs 19.8 kg 193.5 N	> 60 lbs > 22.7 kg > 222.4 N
	13. Is ergonomic anti-fatigue matting located at this operation?		Yes	N/A	No
14. If the operation has visual displays (computer screen), is it mounted 42-62 inches for standing work & 22-32 inches above seat height for seated work?		Yes	N/A	No	
Score (for prioritization purposes)		Total	11	1	2
For classification purposes - If one item is red then the job is red, if one item is yellow then the job is yellow, if all items are green then the job is green. Go to page 2 to complete the recommendations section as applicable.					

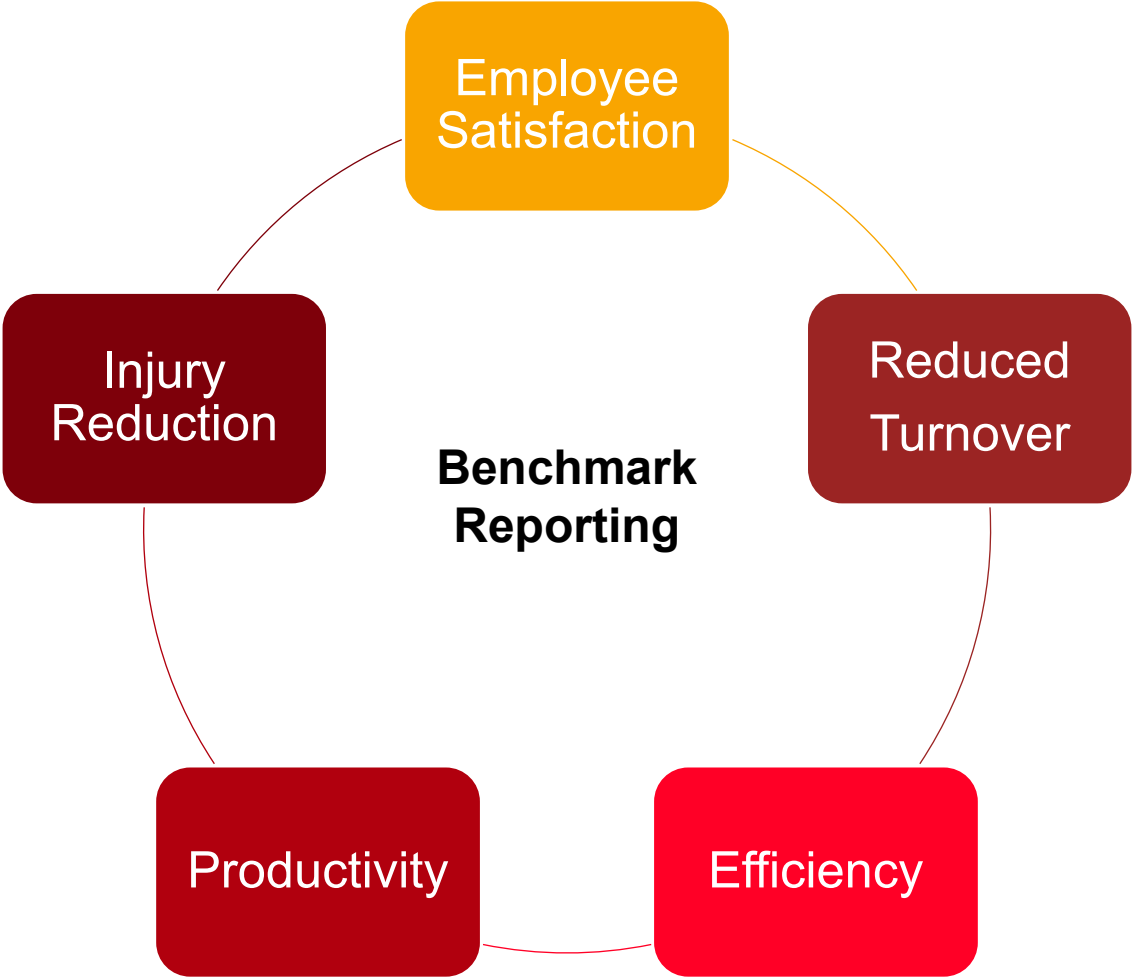
EG000021 Page 1 of 2 Last Updated 9/20/21

Ergonomic Improvement Program

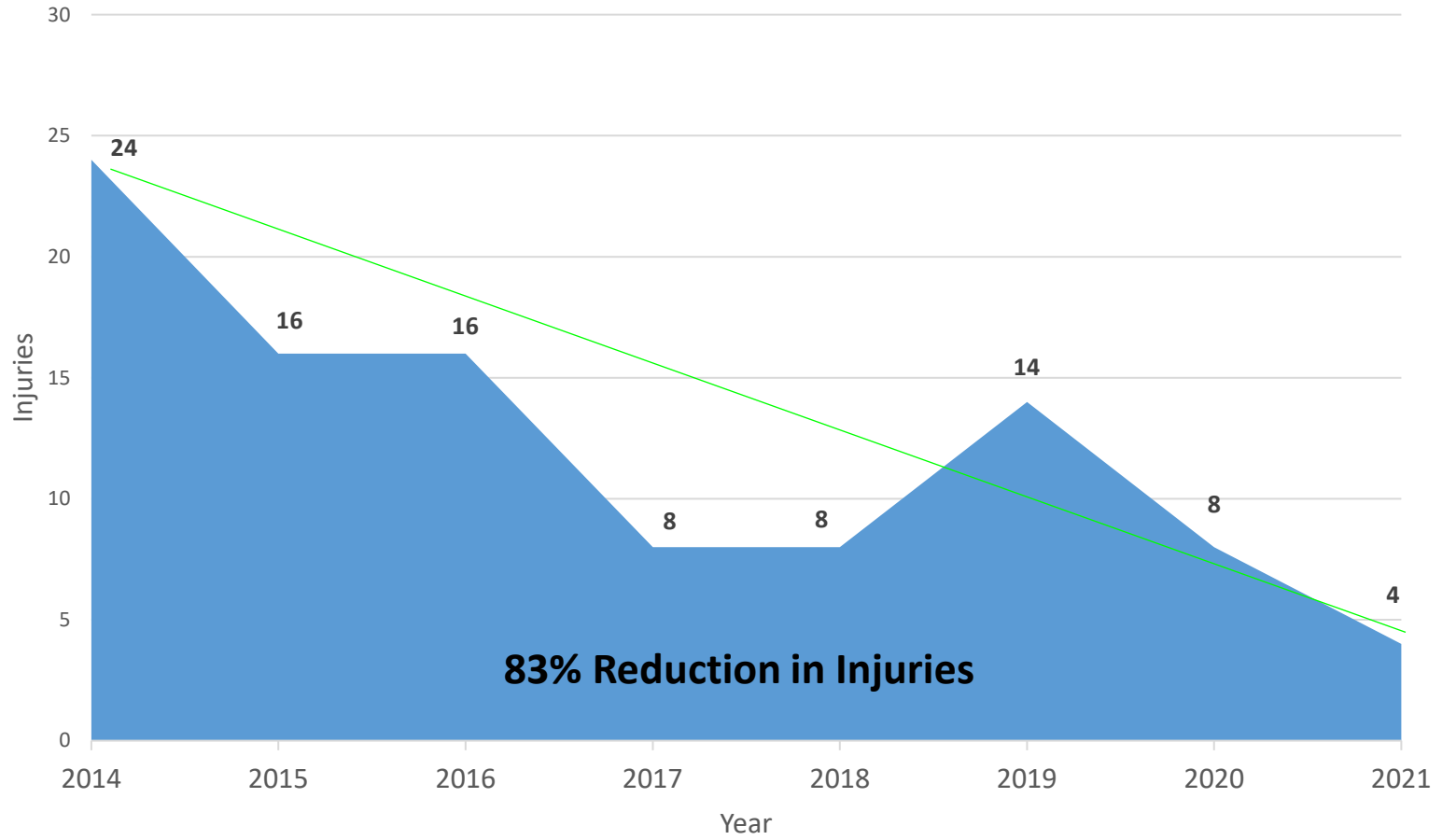
Department: Assembly #1		Date: 6/29/22				
Position: Material Service Cylinder Load		Evaluator: Jillian Jacobs				
This is a quick evaluation of possible risk factors at a particular process. Any red or yellow items may require further analysis using other guidelines.						
Body Circle One Answer For Each Question In The Appropriate Box Below						
Part	Question	View	Green	Yellow (mid point)	Red	
Back	1 Is there severe Back Bending? (bent over 45° or more)		intermittent	< 1/3 of cycle or < 2 per minute	> 1/3 of cycle or > 2 per minute	
	2 Are Awkward Static Postures held? (review lower/upper back, neck, shoulder, arms)		intermittent	< 10 seconds per minute	≥ 10 seconds per minute	
	3 Are items weighing more 10 Lbs (4.5 kg) lifted?		no	Yes, refer to SAF ERG-13 Lifting Guidelines		
Hand/Arm	4 Are the Elbow(s) Raised above the shoulder and/or hand(s) above head?		intermittent	< 1/3 of cycle or < 2 per minute	> 1/3 of cycle or > 2 per minute	
	5 How many Hand/Wrist Motions are there?		< 10 per minute	15 per minute	≥ 20 per minute	
	6 What is the maximum 1 Hand Push Forces?		≤ 9.3 Lbs ≤ 4.2 kg ≤ 41.4 N	11.7 Lbs 5.3 kg 52.0 N	> 14 Lbs > 6.4 kg > 62.3 N	
	7 What is the Vibration from hand tools?		No detectable vibration	Detectable vibration	Very obvious hand shaking	
	8 What is the Pinch Grip force? (it takes about 6 pounds to open a larger binder clip 1/4 inch)		≤ 5.9 Lbs ≤ 2.7kg ≤ 26.2 N	9.2 Lbs 4.2 kg 40.9 N	> 12.5 Lbs > 5.7 kg > 55.6 N	
	9 Does the person use their Hand as a Hammer?		none	< 10 per hour	≥ 10 per hour	
Other	10 How frequently is the associate exposed to Contact Stress? (localized pressure or force on one spot of the body)		intermittent	≤ 1/6 of a cycle	> 1/3 of cycle	
	11 Does the associate Work on their Knees or squat to work?		intermittent	≤ 1/6 of a cycle	≥ 1/3 of cycle	
	12 What is the Pushing/Pulling force for carts? (break-a-way force measured with wheels 90 degrees to the direction of push/pull.)		≤ 37 Lbs ≤ 16.8kg ≤ 164.6 N	43.5 Lbs 19.8 kg 193.5 N	> 50 Lbs > 22.7kg > 222.4 N	
	13 Is ergonomic/anti-fatigue matting located at this operation?		Yes	No		
	14 If the operation has visual displays (computer screen), is it mounted 42-62 inches for standing work & 22-32 inches above seat height for seated work?		Yes		No	
Score (for prioritization purposes)			Total	9	4	1
For classification purposes - if one item is red then the job is red, if one item is yellow then the job is yellow, if all items are green then the job is green. Go to page 2 to complete the recommendations section as applicable.						

The evaluation form is noted "Red" due to the associate retrieving parts from a bin on the floor instead of an adjustable workstation.

Goal is to have 0 yellows and 0 reds



7 Year Historical Injury Data





Type [Ⓜ]
REBA

MSD Risk

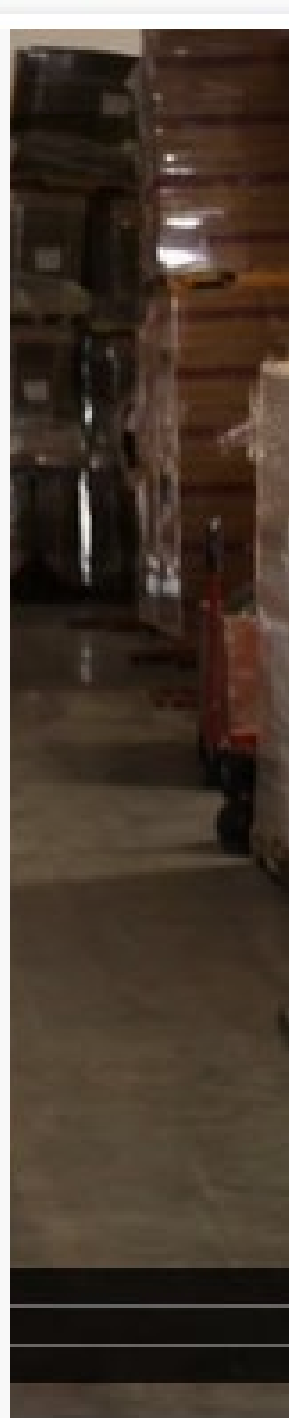
Based on
Posture 1

High 8

By Body Part Where?

Back 3 / 6
Medium

Neck 2 / 6
Low





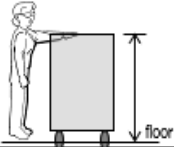
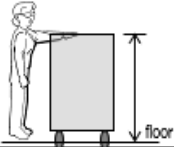
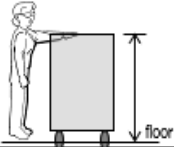
Weld #1 Ergonomic Improvement

Department	Ergonomic Concern	Countermeasure
Weld 1- Material Service	Back flexion of greater than 45 degree. Awkward posture when bending down to retrieve baskets from the material service carts. Basket handle height for the 1st basket is 15". Cart top base height = 9".	Increased the cart height base from 9" to 21" on 9 total carts. Hand placement is now 27" (green zone), resulting in minimal back flexion.

Before	After																										
<table border="1"> <thead> <tr> <th>Racks/Carts</th> <th>Figures</th> <th>Green</th> <th>Yellow</th> <th>Red</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Reach Down to Bottom Shelf</td> <td rowspan="2"> </td> <td>≥ 29.0 in</td> <td>23.5 in</td> <td>< 18.0 in</td> </tr> <tr> <td>≥ 737 mm</td> <td>597 mm</td> <td>< 457 mm</td> </tr> </tbody> </table>	Racks/Carts	Figures	Green	Yellow	Red	Reach Down to Bottom Shelf		≥ 29.0 in	23.5 in	< 18.0 in	≥ 737 mm	597 mm	< 457 mm	<table border="1"> <thead> <tr> <th>Racks/Carts</th> <th>Figures</th> <th>Green</th> <th>Yellow</th> <th>Red</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Reach Down to Bottom Shelf</td> <td rowspan="2"> </td> <td>≥ 29.0 in</td> <td>23.5 in</td> <td>< 18.0 in</td> </tr> <tr> <td>≥ 737 mm</td> <td>597 mm</td> <td>< 457 mm</td> </tr> </tbody> </table>	Racks/Carts	Figures	Green	Yellow	Red	Reach Down to Bottom Shelf		≥ 29.0 in	23.5 in	< 18.0 in	≥ 737 mm	597 mm	< 457 mm
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		≥ 737 mm	597 mm	< 457 mm																							

Rod Line #1 Ergonomic Improvement

Department	Ergonomic Concern	Countermeasure
Rod Line #1	Black pallets are stacked too high (60-85" plus). This could easily result in a shoulder injury when the employee tries to retrieve the pallet from the stack.	Reduced pallet height to less than 50".

Before	After																								
	 <p>A visual line on each column and signage for max height in this area was added.</p>																								
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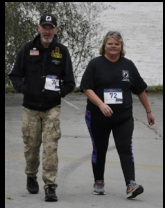
Continue Building Your Program



Healthier Living

- ① A minimum of 50% Healthier Food Options in the Cafeteria
- ② On-site Nursing Room
- ③ Pre-shift Stretching
- ④ On-site Health Risk Assessments (HRA)
- ⑤ Flu Shot Clinics
- ⑥ Employee Appreciation Events (i.e., state Park, water park)
- ⑦ 100-Mile Challenge
- ⑧ Walk with the Doc (Q&A session with Providers)
- ⑨ Smoking Cessation
- ⑩ Virtual Fitness Classes
- ⑪ Massage Therapy
- ⑫ Virtual Counseling

Victory for Veterans 5K Walk/Run



Impacting the Community!

New Women's Nursing Pod



Leadership is the capacity to translate **VISION** into **REALITY**.

- Warren Bennis



Agenda



Hitachi Overview

Building a Foundation

360 Degree Wellness Approach

Developing an Ergonomics Program

Evaluating Outcomes

Evaluate Wellness Program Outcomes



Patient Clinic Savings




Program Participation



Reduced Injuries



Biometric Risk Levels



Gaps in Care



Employee Morale



Retention Rates



Clinic Utilization



THANK YOU

Jillian Jacobs, Wellness Program Manager
jillian.jacobs.sv@hitachiastemo.com | 614.301.1150

A notebook with a light gray cover featuring a repeating fern pattern. A white-bordered black rectangle is pasted onto the cover, containing a quote in white, bold, sans-serif text. A pencil with a dark gray eraser and a sharpened wooden lead tip lies diagonally across the bottom left corner of the notebook. The notebook is slightly open, showing a striped paper insert on the right side.

**PEOPLE WILL FORGET
WHAT YOU SAID,
PEOPLE WILL FORGET
WHAT YOU DID,
BUT PEOPLE WILL
NEVER FORGET HOW
YOU MADE THEM FEEL**

MAYA ANGELOU

Biographical Information

**Jillian Jacobs, Wellness Program Manager
Hitachi Astemo Americas, Inc.
707 West Cherry Street, Sunbury OH 43074
614-301-1150
jillian.jacobs.sv@hitachiastemo.com**

Jillian joined Hitachi Astemo Americas, Inc. (then named American Showa) in 2010, initially as an Exercise Physiologist and an adjunct member of the company's medical clinics staff. In 2017, Jillian accepted the role of Wellness Program Manager and now leads Showa's corporate-wide health and wellness initiatives. Her primary responsibilities include management of Showa's Wellness Centers and development and implementation of health, wellness and fitness programs for over 1,000 employees and their dependents.

Jillian also works closely with plant Safety Departments to develop education and injury risk mitigation programs and is currently initiating widespread ergonomic improvements in all areas of the company. She collaborates closely with Showa Executive Management, the corporate Wellness Centers' medical teams and current vendors, United Health Care & Care Here, to continually promote a culture of wellness for American Showa.

She initially began her career as an Exercise Physiologist and YMCA Director. Jillian is a graduate of Marshall University with a Master of Science degree in Exercise Physiology/ Cardiac Rehabilitation and B.A. in Adult Fitness. She is also a member of Wellness Councils of America (WELCOA) and Health Action Council of Ohio (HAC). Jillian is certified as an American Red Cross Instructor (CPR, AED, First Aid, BBP), ACLS Provider, Diabetic Educator and Ergonomics Assessment Specialist (CEAS).