

IMPLIMENTATION



ELEKTRISOLA (Malaysia) SDN BHD.







CHEMICAL



NOISE









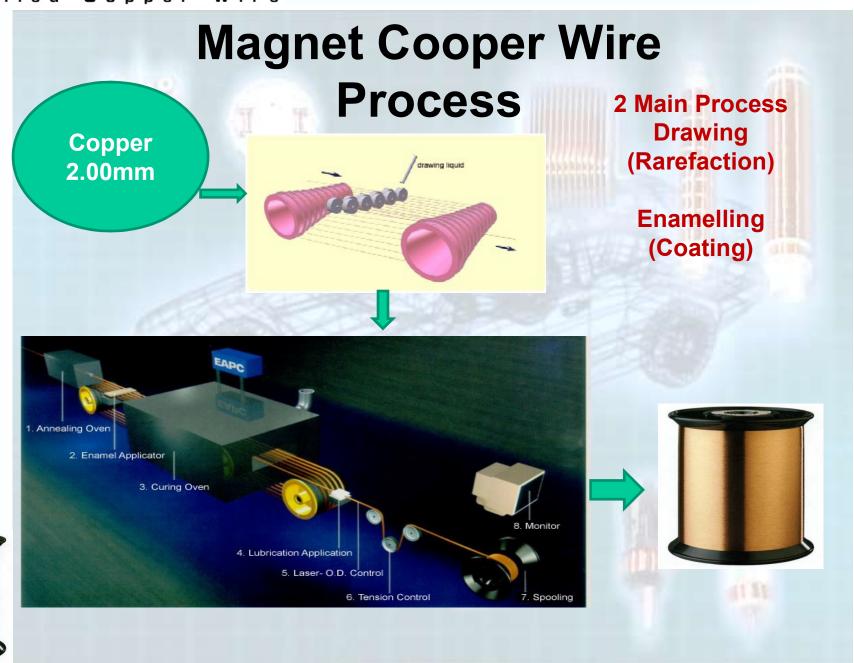


Introduction Of Elektrisola

- A multinational company headquartered in Eckenhagen, Germany and is the largest producer of fine copper magnet wire in the world
- Elektrisola Group was founded by a specialist metallugi, Dr Richard
 Shildbach in 1923 in German. To date, the group has grown Elektrisola has
 7 factories worldwide German, Italy (two plants), Switzerland, USA,
 Malaysia, Mexico and China.
- EM was established in 1992 in the industrial area of Bentong, Pahang Darul Makmur, before moving to the plant site remained in Janda Baik in 1993.
- In 2017, EM has reached the age of 25 years of existence. Starting with a temporary factory site with fewer than 70 employees, today the EM has grown not only in terms of employees has reached 750 people, but it is among the largest factory to other factories within the Group Elektrisola





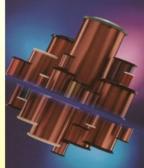




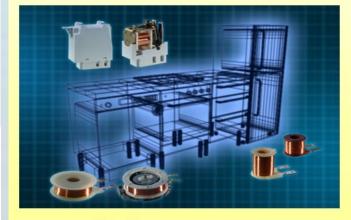
ELEKTRISOLA PRODUCT APPLICATION



Automotive



Industrial



Appliance

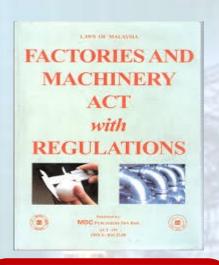


Consumer

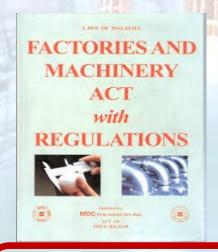




OSH Compliance Related to Industrial Hygiene (Noise, Chemical & Ergonomics)





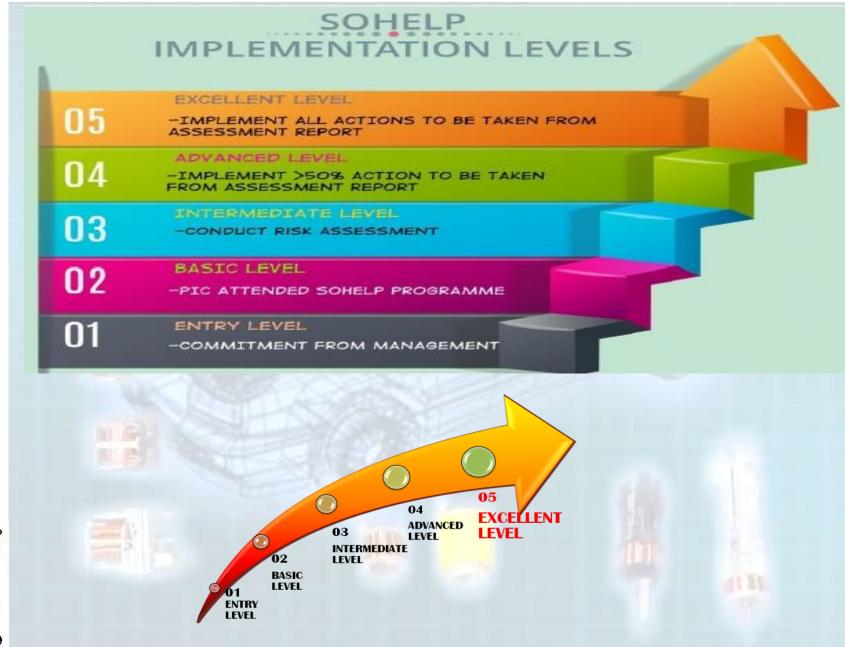


FACTORIES AND MACHINERY (NOISE EXPOSURE) REGULATIONS 1989 OCCUPATIONAL SAFETY AND HEALTH (USE AND STANDARDS OF EXPOSURE OF CHEMICALS HAZARDOUS TO HEALTH) REGULATIONS 2000

FACTORIES AND MACHINERY (SAFETY, HEALTH AND WELFARE) REGULATIONS 1970











Comment JKKP Officer First Coaching

- To establish special SOHELP committee on implementation, PIC,responsibility and job task.
- SOHELP Induction to Committee and workers.
- SOHELP programme and planning (Gantt Chart)

Second Coaching

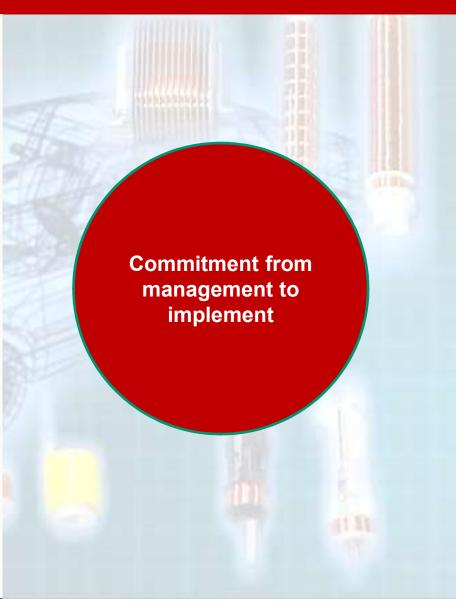
- To ensure every planning is implemented (Gantt Chart)
- Every imported chemical should follow CLASS regulation.
- Ensure SDS in dual language
- To review Chemical Register closely
- Past Audiometric result 2 persons STS- Ensure Retest.
- To conduct Campaign related to SOHELP, to achieve 5 stars rating.





SoHELP: LEVEL 1 (NOISE, CHEMICAL & ERGONOMIC) BASIC









SOHELP: LEVEL 2 (NOISE, CHEMICAL & ERGONOMIC) BASIC









SOHELP: LEVEL 2 (NOISE, CHEMICAL & ERGONOMIC) BASIC

Provide implementation plan for 2 years

ELEKTRISOLA (M) Sdb Bbd SOLHELP CALENDAR ACTIVITIES

		200			YEA	R 2016	-2017								
	Activities Title	Planning	APB	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAC	APE
		Planning													
1	Level On Entry	Actual													
	Establish SOHELP	Planning			•••										
1	Committee In	Actual	3 6	-	Ç	9	8	\$	8	8	8	Ŷ	8	8	Ş
2	Training the SOHELP	Planning													
~	Committee	Actual		-		1	1	1					1	1	
		2.00			Er	gonor	nic			•					
2	Level 2 (Basic)		T				Ī	Г	Ī	Т	Ī	Г	Г	Г	
000	Planning to implement the program involve	Planning	3 8			3	3	3				~		3	~
4. 9	Employee	Actual	8 8	-	2	1									
3	Level 3 (Intermidiate														
	Conduct the Ergonomic	Planning										à.			
	Training To Employee	Actual	3 6	_	÷	्	्	्		100	100	0	8	0	**
4	Level 4 (Advance)	(0.4	3 %		\$	8	8	8	8	8	8	8	8	8	8
	50% Implemententation Workplace Ergonomic	Planning	3 6	36											á
	Asessment & Checklist	Actual													
5	Level 5 (Excellent)	100	3 %	33	8	8	8	8	8	3	8	8	8	8	8
	Full Immplementation Ergonomic Assssment	Planning	xis												
	& Checklist	Actual		200			-					-:		-	
	22-				C	hemic	al								
3	Level 3 (Intermidiate	•)													
	PPE Fit Test	Planning	5 2		1										
		Actual		-											
5	Level 5 (Excellent)	See	5 5	<u> </u>	\$ i	å	8 1	â l	â .	8	8	å i	8 1	â .	å
	Full Immplementation	Planning													
	CHRA report Proposal	Actual	1	500						-					
						Noise									
	Implement SOHELP	Planning												-	
	Campaign	Actual	3	23	8	9				-	9	9	9	9	9
	· · · · · · · · · · · · · · · · · · ·					Noise								-	





SOHELP: LEVEL 2 (NOISE, CHEMICAL & ERGONOMIC) BASIC

HIRARC has been conducted Condition of Likelihood Severity Existing Hazard No. Activity Hazard Consequence Control Measure Category area R/W 0.3 Low Working production Loud noise. Physical Deafness. Wear ear plug. (machine and Bunyi bising. Fizikal Pekak. Pakai earplug. (2012)inspection). Yearly audiometric test. Bekerja di kawasan pengeluaran Uiian audiometrik tahunan. pemeriksaan) iii. Installed sound proofing at machines. Mesin dipasang dengan penghalang Identified Control Assess









SOHELP: LEVEL 2 (NOISE)



Conducted Noise, Risk Assessment









SOHELP: LEVEL 2 (NOISE)

ELEKTRISOLA (MALAYSIA) SDN.BHD.

(iv) Personal Noise Exposure Monitoring

Department / Section	Name	Run Time (hrs)	7.0hrs (%)	Leq 7.0hrs (dBA) Qa 45	Peak (dB)	Max (dBA)	Type Of Exposure
Old Factory (Intermediate Drawing)		7.42	32.42	82.8	135.3	110.2	Fluctuating
		7.37	39.99	84.4	132.4	106,5	Fluctuating
Old Factory (Pine Wire Drawing)		7.38	19.60	79.2	133.7	114.0	Fluctuating
		7,40	41.19	84.6	*143.5	112.7	Fluctuating
New Factory (Ultrafine Drawing)		7.43	8.70	73.4	128.4	104.7	Fluctuating
		7.38	25.88	81.2	133.8	113.1	Fluctuating
		7.43	28.49	81.9	125.4	101.2	Fluctuating
Die Polishing (Small)		7.40	18.64	78.8	120.5	106.3	Fluctuating
Die Polishing (Big)		7.60	18.86	78.9	135.2	110.7	Fluctuating
Carpentry		7.40	12.72	76,1	135.9	111.6	Fluctuating
Old Factory (Fine Wire Enameling)		7.62	9.26	73.8	125.4	108.1	Fluctuating
		7.62	12.76	76.1	138.1	113.6	Fluctuating
		7.47	19.30	79.1	128.3	107.4	Plurtuating
		7.40	5.85	70.5	116.6	111.0	Fluctuating
New Factory (Ultrafine Enumeling)		7.73	29.96	82.3	*140.9	110.4	Fluctuating
		7.73	28.55	81.9	*242.5	108.6	Fluctuating
		7.75	15.72	77,6	131.8	107.7	Fluctuating
LITZ Wire		7.72	3.46	66.7	127.6	102.2	Fluctuating

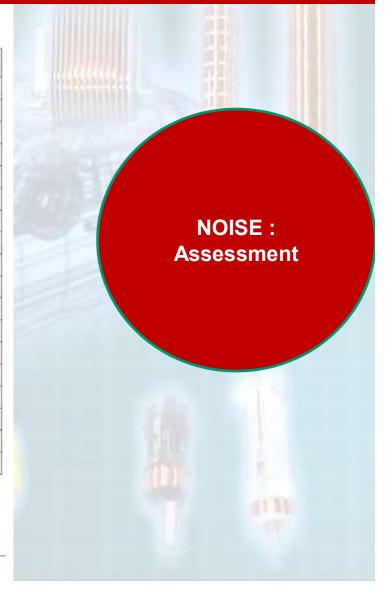


Permissible Exposure Limit (PEL): Leq: 90.96 dB(A) - 0 ver 7.0 Hours Max Lovel: 115.0 dB(A) Peak Level: 140.0 dB

Action Level (AL):











SOHELP: LEVEL 3 (NOISE) – INTERMEDIATE

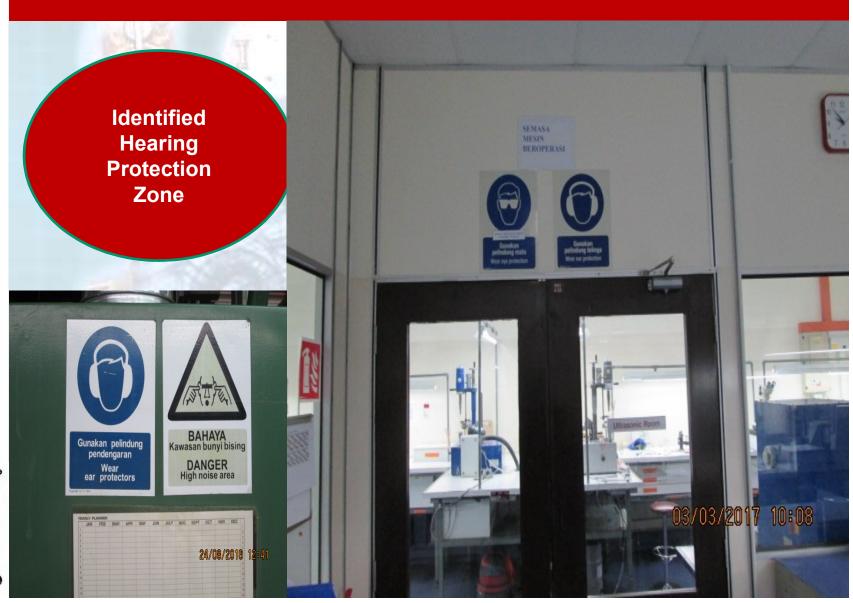
Provide information to employees exposed to excessive noise







SOHELP: LEVEL 3 (NOISE) – INTERMEDIATE







SOHELP: LEVEL 3 (NOISE) – INTERMEDIATE



Provide Hearing Protection

Implement Administrative Control

Adequate Record
Assessment





SOHELP: LEVEL 4 (NOISE) – ADVANCE



Implement Audiometric Test

Audiometric Testing result interpreted by Medical Practitioner

Provide Training





SOHELP: LEVEL 4 (NOISE) – ADVANCE

Implement Administration & Engineering Control

Before



After





Sound Absorber



SOHELP: LEVEL 5 (NOISE) – EXECELLENT

Continual Improvement









Modified Machine
Parts create
Excessive Noise







SOHELP: LEVEL 3 (CHEMICAL) – INTERMEDIATE

Information/Instruction & Training



Conduct CHRA

CHEMICAL HEALTH RISK ASSESSMENT (CHRA)

AT

Elektrisola (M) Sdn Bhd Jalan Damai Satu, Janda Baik, 28750 Bentong, Pahang Daruk Makmur.

Our Ref. No. : L-KL-CR1406NEL-0552
Assessment Date : 24th & 25th June 2014
Reporting Date : 29th September 2014

Prepared By:



Environmental Science (M) 5dn. Bhd. No. 18, Jalan Tago 11, Tago Industrial Park, Sri Damansara, 52200 Kuala Lumpur Tel: 03-62736013 Fax: 03-62759325

Conducted by:

Muhamad Khairul Najib bin Ahmad JKKP HIE 127/171-2(259) & Soo Ee Wah JKKP HIE 127/171-2(264)





SOHELP: LEVEL 3 (CHEMICAL) – INTERMEDIATE











SOHELP: LEVEL 3 (CHEMICAL) – INTERMEDIATE

Provide Suitable PPE

PPE FIT TEST

PPE PROPER STORAGE











SOHELP: LEVEL 4 (CHEMICAL) – ADVANCE

IMPLEMENTATION OF RECOMMENDED ACTION

CLIENT

: ELEKTRISOLA (MALAYSIA) SDN. BHD.

PROJECT REF : CHEMICAL EXPOSURE MONITORING



7.0 MONITORING RESULTS

7.1 PERSONAL EXPOSURE MONITORING RESULTS

Table 7.1(a): Monitoring Data of Chemical Exposure Monitoring

Sample	Name	Work Unit/ Task	Work Specification	Chemical Monitored	Duration (min)	Results TWA 8 Hour (mg/m³)	PEL (mg/m³)	Comment
P1		QC Laboratory (Oven Room)	Assistant Technician	Lead	360	0.008	0.05	Below PEL
P2	5	Electronic Room	Technician	Lead	360	0.007	0.05	Below PEL



Note: PEL means Permissible Exposure Limit.



SOHELP: LEVEL 4 (CHEMICAL) – ADVANCE

INSTALL EFFECTIVE LEV

INCREASE THE USE OF NATURAL VENTILATION











SOHELP: LEVEL 5 (CHEMICAL) – ADVANCE

Implement all action to be taken in the CHRA report

	Action	To Be Take	n Base	On 2014 CHRA	
	Date:	Nov-16			
	Time				
	Venue:				
	Attendance				
N	Action Items	PIC	Status	When	Remarks
1	Lead Monitoring	88	39		
	Once a year (Monitoring to be carried out during solder bar melting done)	Asran & Safidah	Done	8-Apr-15	Conducted by Chemvi Lab
2	Phenol, Cresol, Xylene (mixed), Ethylbenzene				
	Enamel Controller (E3), (E4,E5 & E6) Enamel Fine & Ultrafine	Asran & Nadiah	Done	17-Hov-16	Conducted by ACUMEN Lab
3	Rockwool Fibre Monitoring	0			
	(M1) Oven Repair Room	Asran & Idris	Done	17-Nov-16	Conducted by ACUMEN Lab
4	Wood Dust (Total Particulate Not Otherwise Classified)				
	(L2) Carpentry Operator	Asran & Najib	Done	17-Nov-16	Conducted by ACUMEN Lab
			20		
	3	5	- 3		





SOHELP: LEVEL 5 (CHEMICAL) – ADVANCE

REVIEW POLICY, BUDGET AND PLANNING IN OSH

ELEKTRISOLA (Malaysia) Sdn. Bhd.(193121-P)

Plant Wide Objectives, Targets and Management Programs 2017 (POTP)

Objectives	Targets (2017)	Management Programs
Meminimakan bahaya dan risiko pekerjaan.	Megurangkan kehilangan masa kecederaan untuk keseluruhan kilang kepada 16 hari cuti sakit menjelang akhir tahun 2017.	 Menggalakkan pekerja untuk melapurkan semua kes-kes kejadian ya mungkin berlaku di dalam tempoh 24 jam. Melaksanakan sekurang-kurangnya satu pemeriksaan tempat kerja setial 2 bulan (6 kali setahun) dan meliputi semua kawasan EM.
Policy As A Good		 Kakitangan ESH akan menyertai perjumpaan pertukaran syif sekurang kurang nya 8 kali sebulan.
Cooperate Citizen	 Menurunkan sekurang- kurangnya 5% kes sakit belakang dalam tahun 2017 	 Menjalankan sekurang-kurangnya satu pemerhatian BBS setiap 2 bular (6 kali / tahun).
Oluzen	berdasarkan data penanda aras tahun 2014 hingga 2016.	 Melaksanakan sekurang-kurangnya satu program seluruh kilang berkaita sakit belakang.
		 Mengedarkan sekurang-kurangnya satu komunikasi kesedaran untu setiap 2 bulan (6 komunikasi setahun) berkenaan sakit belakang.
Melaksanakan latihan Pengungsian Bangunan.	 Memindahkan semua pekerja daripada bangunan dalam jangkamasa 4 minit. 	 Melaksanakan sekurang-kurangnya dua latihan pengungsian bangunar untuk mana-mana dua syif setiap tahun.
	Jangaran and American	 Memberi kesedaran dengan memberi komunikasi ESH kepada semuli pekerja sekurang-kurangnya 3 kali setahun.











SOHELP: LEVEL 3 (ERGONOMIC) – INTERMIDIATE

ESTABLISH SOP IN ERGONOMIC

UNCONTROLLED COPY (Valid for use for 3 days start from 3/6/2017)

Procedure No : WSH99010 Revision No : 4 Date Issued : 28.09.2011

Procedure

Flow	Responsibility	Details	Reference
Consideration before commence	EM Employee	Before start you should consider the risk and the following factor: Sebelum bermula anda hendaklah mempertimbangkan risiko dan faktor-faktor berikut:	X _
		Size, weight and shape of the object not to cause any danger to health. Ukuran, berat dan bentuk objek tidak menyebabkan apa-apa bahaya kepada kesihatan.	
		1.2 Slippery, uneven or obstruction on the floor. Licin, ketidak samaan atau halangan di atas lantai 1.3 Travelling distance by horizontal or vertical. Jarak perjalanan samada menegak atau melintang.	
Limitation of capability	EM Employee	2.0 Limit of your capability and do not try anything that you are unable to do. Hadkan kepada keupayan anda dan jangan mencuba sesuatu yang anda tidak mampu untuk melakukannya.	6
		Use mechanical lifter if the goods are too big, or difficult to handle. Gunakan pengangkat mekanikal jika barangan terlalu besar, atau susah untuk dikendalikan.	
		Get help in team, at least 2 persons if the goods is weight is not acceptable and too difficult to handle. Dapatkan pertolongan dari rakan sekerja,	THE WAR
		sekurang-kurangnya 2 orang jika berat barangan tidak mampu diangkat dan terlalu sukar untuk dikendalikan.	Creation of the contract of th





SOHELP: LEVEL 3 (ERGONOMIC) – INTERMIDIATE

CONDUCT WORKPLACE ERGONOMIC ASESSMENT

	Ranking of exposure level		151	
No	Task	Section	Exposure Level (%)	Action Level
1	Lifting and transferring box	Logistic	105	4
2	Transferring spool from pallet	Bare wire Inspection (Fine)	97.7	4
3	Transferring box into blue box	Procurement	89.9	4
4	Lifting, pulling and push spool to inspection	Bare wire Inspection (UltraFine)	78.4	4
5	Lifting spool to machine	Litz Wire	75.6	4
6	Cleaning chamber	Production support	72.7	4
7	Spool refurbishing	Procurement	68.8	3
8	Prepared the felt	Production support	67.3	3
9	Take out spool from machine	Drawing (Intermidiate)	66.5	3
10	Manual lifting spool from machine	Enamelling (X m/c)	66.5	3
11	Transferring spool into drawing machine	Drawing (Fine wire)	61.4	3
12	Entering empty spool into machine		58	3
13	Take out spool from machine	Litz Wire	51.1	3
14	Cleaning glassware	Production support	40.7	1





SOHELP: LEVEL 3 (ERGONOMIC) – INTERMIDIATE

CONDUCT ERGONOMIC TRAINING TO EMPLOYEE









SOHELP: LEVEL 4 (ERGONOMIC) – ADVANCE

Implementation 50% Ergonomic Risk Assessment

Ne	o.		Condition of assessment	C/1	Hazard	Hazard category	Consequence	Severity	Likelihood	Initial Risk Rating	Accident Record	Existing Control measure
1	A 100 C	ning spool upright. negakkan spool.	R	С	i. Heavy spool. Spool berat.	Ergonomic Ergonomi	Back injury. Kecederaan belakang.	3	1	3	-	i. Use manual handling device Gunakan peralatan menegakkan spool.
					ii. Finger trap. Jari tersepit.	Physical Fizikal	Finger fracture. Jari patah.	3	2	6	16/13	i. Careful. Berhati-hati.







SOHELP: LEVEL 5 (ERGONOMIC IMPROVEMENT) – EXCELLENT

BEFORE



Before: Lifting manually

AFTER



After: by lifting hoist

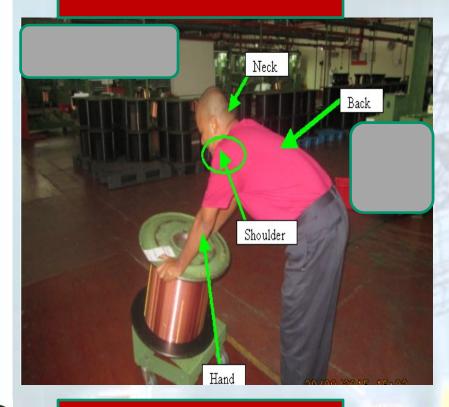
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SOHELP: LEVEL 5 (ERGONOMIC IMPROVEMENT) - EXCELLENT

BEFORE



AFTER











SOHELP: LEVEL 5 (ERGONOMIC IMPROVEMENT) - EXCELLENT

BEFORE



Before: manually tilt

AFTER



After: by Motorized tilt





SOHELP: LEVEL 5 (ERGONOMIC IMPROVEMENT) - EXCELLENT

BEFORE



Before: Lower Level

AFTER



After: Raise the pallet level





SOHELP: LEVEL 5 NOISE, ERGONOMIC & CHEMICAL - EXCELLENT (CAMPGAIN & PROMOTION)









SOHELP: LEVEL 5 NOISE, ERGONOMIC & CHEMICAL - EXCELLENT (CAMPGAIN & PROMOTION)















