Overview of Systematic Occupational Health Enhancement Level Programme (SoHELP)



Noor Hafizie Sulkafle
Chemical Management Division
Department of Occupational Safety and Health

Contents

What is SoHELP

01

02

Why SoHELP

Who is Involved?

03

04

When will SoHELP Begins?

How to Participate?

05

SOHELP - Phase II

07

Way Forward

09

06

SoHELP - Phase I

08

SoHELP – Chemical

Elements

10

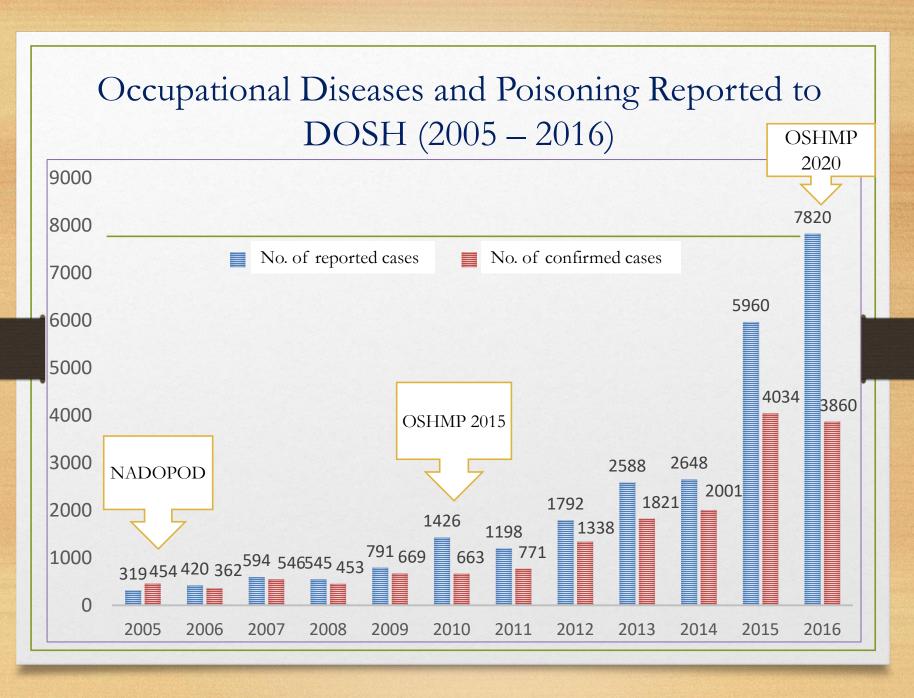
Conclusions

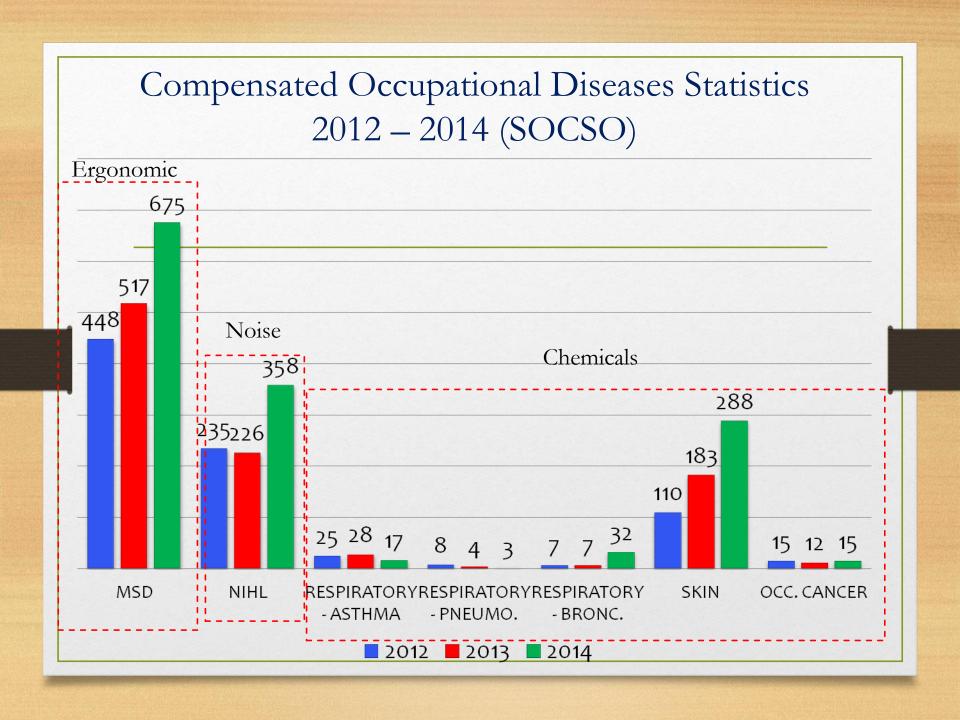
01 What is SoHELP?

- A systematic intervention programme:
 - to help industries to enhance industrial hygiene standard in the workplaces
 - Meet regulatory requirements on industrial hygiene related regulations

02 Why SoHELP?

- Increasing trend on reported occupational diseases in Malaysia mainly due to exposure to excessive noise, chemical and ergonomic risk factor
- Relatively low compliance to industrial hygiene related regulations in Malaysia
- Industrial hygiene related regulations seems as difficult and costly to comply





Critical Area

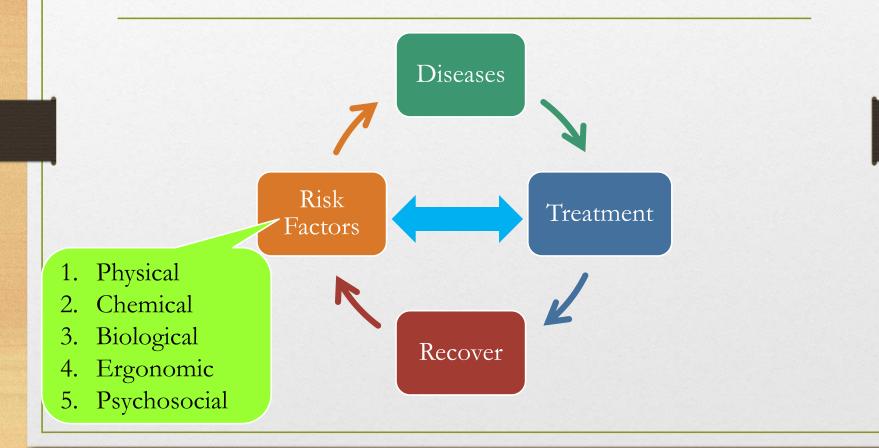
- Electronic/Electrical
- Wholesale

- Metal
- Chemical

HSE UK 2015/2016

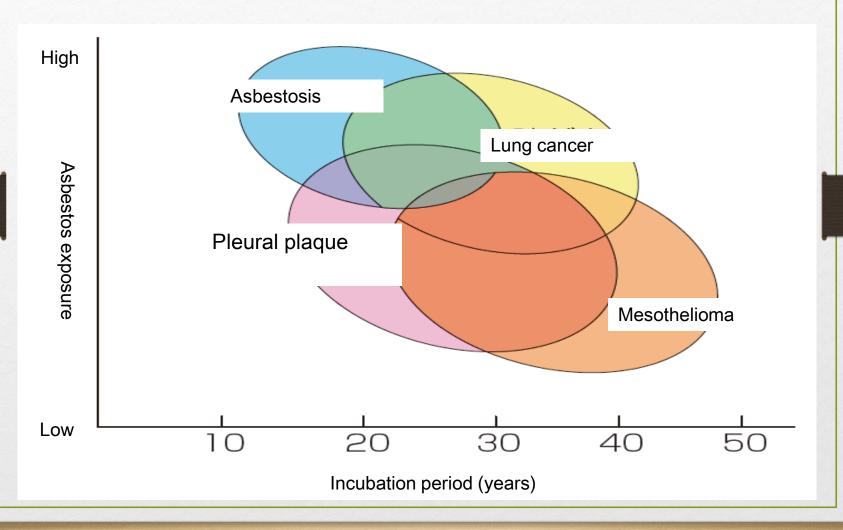
- Around 13,000 (98.9%) fatalities per year due to lung and occupational cancer vs 144 (1.10%) fatalities due to workplace accident.
- Estimated 1.3 million workers believed they suffer from occupational related diseases
- 80% of self reporting report of occupational related diseases due to musculoskeletal disorder (MSD), stress, depression and anxiety
- 25.9 (85.20%) loss time due to work related diseases compare with 4.5 (14.80%) million days due to workplace accident.

Occupational Related Diseases Cycle



Latency Period

Example: Asbestos related diseases takes 10-50 to develop



Systematic occupational Health Enhancement Level Programme



SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SoHELP)

03 Who is Involved?

- Partnership between:
 - Department of Occupational Safety and Health (DOSH) (SoHELP Verifier)
 - OSH practitioners (SoHELP Enabler)
 - Safety and Health Committee members
 - Employers
 - Employees

04 When will SoHELP Begins?

• Four phases between 2016 – 2020

Phase I

Mar '16 – Apr '17

Phase III

June '18 – May '19

2016

2017

2018

2019

2020

Phase II

May '17 – May '18

Phase IV

June '19 – May '20

SoHELP Phases

Phase	Preparation Period	Start	End	Duration (Months)	Target	Achieved		
1	Jan – Feb 2016	1 Mac 30 April 14 2016 2017		220	214			
2	Jan – Apr 2017	2 May 2017	31 May 2018	13	290	296		
3	Jan – May 2018	1 Jun 2018	31 May 2019	12	290			
4	Jan – May 2019	1 June 2019	31 May 2020	12	290			
Total					1090			

05

SoHELP Methodology (How to Participate)

Invitation to
Participate
by DOSH

SoHELP
2 Enablers train
by DOSH

3

Workplace inspection based on Checkpoints

Ongoing
coaching &
consultations

Verification by
SoHELP
Verifiers

4

Implementation of action plan

Final level verification

8

Obtain CEP at the end of the year

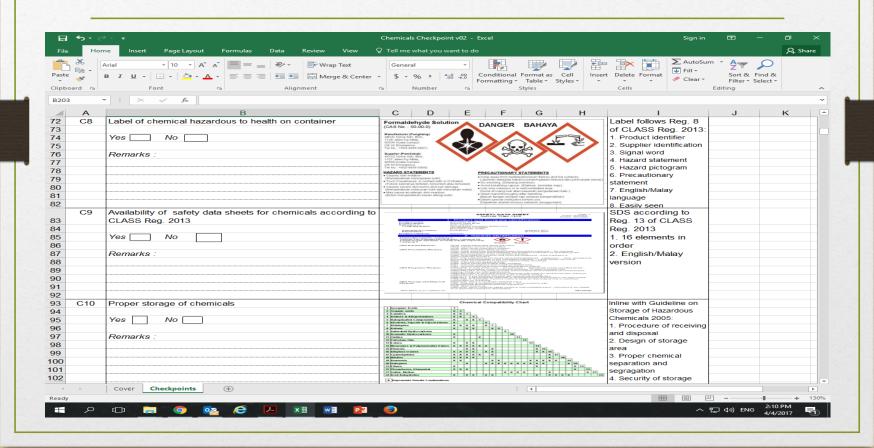
9

Sharing best practices in National SoHELP Convention

SoHELP Implementation Levels

LEVEL	ERGONOMICS	CHEMICALS	NOISE
5 (EXCELLENT)	 Implement all action to be taken identify in the ergonomic checklist No new case of health problem related to ergonomic Implementation of continuous improvement programmes on ergonomic 	 Implement all action to be taken in the CHRA/SiRAC report No new case of occupational disease related to chemical Implementation of continuous improvement programmes on chemical management 	 Implement all action to be taken in the Noise assessment report No new case of NIHL Implementation of continuous improvement programmes on hearing conservation
(ADVANCED)	 Implement most (50%) action to be taken identify in the ergonomic checklist Reporting/notification of occupational diseases cases related to ergonomic. 	 Implement most (50%) action to be taken in the CHRA/SiRAC report Reporting/notification of occupational diseases cases related to chemicals Good ventilation system 	 Implement 50% of actions to be taken in the Noise assessment report Reporting/notification of occupational diseases cases related to noise. Baseline audiometric test
(INTERMEDIATE)	 Conduct risk assessment Conduct information, instruction and training Provide PPE Warning signs Good record system Integrate ergonomic aspects into relevant SOPs 	 Conduct CHRA/SiRAC Conduct information, instruction and training Implementation PPE programme Warning signs Good record system Integrate chemical management aspects into relevant SOPs 	 Conduct noise assessment Provide information, training & supervision Provide PPE & control Warning signs Good record system Integrate hearing conservation aspects into relevant SOPs Identify hearing protection zone
2 BASIC)	 PIC attended SOHELP programme PIC conduct internal training on SOHELP PIC prepare Action Plan 	 PIC attended SOHELP programme PIC conduct internal training on SOHELP PIC prepare Action Plan Prepare chemical register Label of CHH & SDS Availability and maintenance of welfare facility 	 PIC attended SOHELP programme PIC conduct internal training on SOHELP PIC prepare Action Plan
1 (ENTRY)	 Commitment from management Appointment of person- in-charge 		

Example of SoHELP Checkpoints



Detailed Action Plan

• Prepare action plan after completing first stage workplace assessment using all checkpoint forms

No.	Checkpoint reference no.	Action to be taken	Due date	PIC	Status of implementation



Example of SoHELP Monitoring Record by DOSH Officer (SoHELP Verifier)

Name of Company:

Address:

Name of SoHELP Enabler:

	SoHE	SoHELP LEVEL OF AWARENESS AND IMPLEMENTATION												
	M1	M6	M10	M13										
Date of Assessment	May '17	Nov '17	Feb '18	May '18										
		Level achieved												
ERGONOMICS	2	2	2	5										
CHEMICALS	2	2	3	5										
НСР	2	3	3	5										
CEP Recommended		5		30										

DOSH Office:

CEP for SoHELP Enablers

	SOHELP Level						
SoHELP Components	L3	L4	L5				
Chemical	5	8	10				
Ergonomic	5	8	10				
Noise	5	8	10				
TOTAL	15	24	30				

Terms and Conditions

- •This CEP is given base on current level.
- •SHO can apply for CEP once per calendar year.
- •SoHELP Level must be higher than previous year. If the higher level cannot be achieved in the next year, CEP may be considered if PIC can provide proof of actions taken in order to improve workplace condition pertaining to SoHELP requirement.
- •If the PICs are more than one (1), proof of participation must be provided by each and everyone of PIC.
- •Verification of each level must be done by SoHELP Verifier.

Example of CEP Calculation

CallEl D Commonate	20)17	2018			
SoHELP Components	Level	CEP	Level	CEP		
Chemical	L4	8	L5	10		
Ergonomic	L3	5	L5	10		
Noise	L5	10	L5	10*		
TOTAL		23		30		

^{*}Maximum point was given in the previous year

Example of Invitation Letter

NAMA TEMPAT KERJA DAN ALAMAT

Tuan,

JEMPUTAN UNTUK MENYERTAI PROGRAM INTERVENSI SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SOHELP)

Dengan segala hormatnya perkara di atas adalah dirujuk.

- 2. Adalah dimaklumkan bahawa Jabatan kini sedang menganjurkan program intervensi SOHELP di seluruh negara dalam usaha untuk meningkatkan tahap pengurusan kesihatan pekerjaan di tempat kerja. Tempat kerja yang menyertai program ini akan diberi latihan dan bimbingan oleh pegawai Jabatan dalam aspek yang berkaitan. Pengamal keselamatan dan kesihatan pekerjaan (KKP) yang berkhidmat dengan syarikat yang menjayakan program ini juga layak untuk dipertimbangkan untuk dianugerahkan mata pembelajaran berterusan (CEP) sebanyak maksimum 30 mata setahun.
- 3. Sehubungan dengan itu, syarikat tuan adalah dipelawa untuk menyertai program ini. Sila lengkapkan dan kembalikan Lampiran 1 yang disertakan sebelum atau pada 31 Mac 2016 untuk tindakan pihak kami selanjutnya. Untuk sebarang maklumat lanjut, tuan boleh menghubungi (KASIH NEGERI) di talian atau emel (-----).

Sekian. Terima kasih.

"BERKHIDMAT UNTUK NEGARA"

"Pekerja Sihat Produktiviti Meningkat"

Saya yang menurut perintah,

Ir. Hj. KORMAIN BIN Hj. MOHD NOOR

Pengarah

Jabatan Keselamatan dan Kesihatan Pekerjaan Negeri Johor.

Example of Acceptance & Appointment of SoHELP Enabler Form

LAMPIRAN 1

BORANG PERSETUJUAN PENYERTAAN PROGRAM INTERVENSI SOHELP

De	ngan ini	saya,	sel:	aku _(Jawatan)								
di												
me	menyertai Program Intervensi SOHELP.											
				t sebagai orang yang								
B	il. Nar	ma	No. KP	Jawatan								
\vdash												
Se	kian, terii	ma kasih.										
INa	Pihak syarikat juga bersetuju untuk melantik penama berikut sebagai orang yang bertanggungjawab untuk melaksanakan program ini:											
Та	rikh:											
1 a	IIKII.			bersetuju / tidak bersetuju* untuk penama berikut sebagai orang yang ram ini:								

*Potong mana yang tidak berkenaan

Certificate of Attendance

Sijil Penyertaan

JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN JOHOR

(KEMENTERIAN SUMBER MANUSIA)

Adalah Dengan Ini Disahkan Bahawa.

NAMA PESERTA DAN NO. KPI

Telah mengikuti dengan jayanya

KURSUS IMPLEMENTASI SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAM (SOHELP)

> Pelabat JKKP JOHOR (4 - 5 Mac 2016).

> > Irr. Htt Karmain Bin Htt. Makel Noor

Plants was readly

Jahatan Keselamatan dan Kesibatan Priceriaan

Award of CEP Certificate

Sijil Penyertaan

JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN JOHOR

(KEMENTERIAN SUMBER MANUSIA)

Adalah Dengan Ini Disahkan Bahawa

(NAMA PESERTA DAN NO. KP)

Telah melakganakan dengan jayanya / Telah menyertai

PROGRAM INTERVENSI SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAM (SOHELP)

KOMPONEN KIMIA ARAS 5 (10 CEP) KOMPONEN ERGONOMIK ARAS 5 (10 CEP) KOMPONEN BUNYI BISING ARAS 5 (10 CEP)

> Ir. Hj. Kormain Bin Hj. Mohd Noor Pangarah Jabatan Basalamatan dan Basalamatan Pakarjaan Jahar

Taxiikib:

Certificate of Appreciation

Sijil Penghargaan

JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN
JOHOR

(KEMENTERIAN SUMBER MANUSIA)

Adalah Dengan Ini Disahkan Bahawa

(NAMA TEMPAT KERJA)

Telah melaksanakan dengan jayanya / Telah menyertai

PROGRAM INTERVENSI SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAM (SOHELP)

dan memperolehi aras keseluruhan 5 (Cemerlang)

Ir. <u>Hi Kormain</u> Bin <u>Hi, Mohd</u> Noor <u>Pensarah</u> Jahatan Keselamatan dan Kesihatan Pekerjaan Johor

06

SoHELP - Phase I

Phase I Participation

			1	No. of OS	H Practition	er involved
States	Target	Achieved	Participation (%)	SHO	CHRA Assessors	Others
Sarawak	15	16	107%	18	2	0
Sabah	15	16	107%	8	1	7
Melaka	15	16	107%	22	1	16
Johor	20	20	100%	17	1	3
Perak	15	15	100%	16	1	0
WPKL	15	16	107%	11	0	4
Kedah	15	15	100%	25	1	1
Terengganu	15	15	100%	15	0	0
Pahang	15	15	100%	20	0	2
Kelantan	10	10	100%	7	0	3
Selangor	20	19	95%	18	0	1
Negeri Sembilan	15	15	100%	11	0	0
Pulau Pinang	15	13	87%	15	1	0
Labuan	10	7	70%	7	0	0
Perlis	10	6	60%	4	0	2
Total	220	214	97%	214	8	39

National Average Grades (NAG)

States	Chemical	Noise	Ergonomic	NAG
Kedah	4.73	4.80	4.80	4.78
Melaka	4.50	4.81	4.81	4.71
Perak	4.69	4.69	4.69	4.69
Selangor	4.58	4.58	4.71	4.62
Terengganu	4.92	4.40	4.53	4.62
Johor	4.55	4.60	4.65	4.60
Sabah	4.86	4.38	4.36	4.53
Pulau Pinang	4.38	4.56	4.63	4.52
Labuan	3.86	4.86	4.67	4.46
Negeri Sembilan	3.87	4.47	4.67	4.33
Sarawak	4.50	4.63	3.81	4.31
WPKL	4.00	4.38	3.94	4.10
Pahang	3.86	4.21	4.14	4.07
Perlis	2.80	3.20	3.60	3.20
Kelantan	3.20	3.40	2.90	3.17
	4.22	4.40	4.33	4.31

1st National SoHELP Conventional

15 – 16 March 2017





Konvensyen Sohelp/Kebangsaan 2017



SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SoHELP)







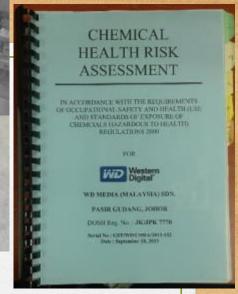
Best Practices

SOHELP: CHEMICAL

Practices:

- CHRA
- CLASS Labelling
- Chemical Exposure Monitoring
- Medical Surveillance (Ni & Lead
- Chemical Register
- Chemical SDS
- SOP
- PPE
- Trainings









SECTION B:	LIST	OF	CHE	MIC	ALS	HA	ZA	RDO	JS C	HEN	1ICA	AL TO H	EALT	ГН		_	_	_								Щ
Location:	F	0	D	ı	Р	L	Α	N T	t	П	1		П		П		İ	L	No. of Hazardous Chemical:			4	No. of Workers:	Male:	4 ()
Process Ope	eration	1:	R	0 D	1	E	Р	R C	С	Ε	S	S	П		П	1	I	T						Female:	-	1
Product Name	Nai o Che	F	I F	sica orm of	1	lo. e	er	1	gpe M	of C				Usa Chei				CA	Name of Active Ingredients	Cla Pac I Reg	omply w ssifica kaging abellin ulation,	tion, and g 1977	Name, Address Contact Numbe			
al			emic al	-	d	Ī	Engi g C				PPE	т	pe#		antity nonth				S (Y/N	Clas	Labe (Y/N		•		.,	
ANTISCALA NT (Hyperspace MDC 120)	Ni	4	Lie	quid		21			GV		go ri gl res impe	ety glass, afety oggles, ubber loves, pirator, ermeable apron	RC	וםפ	170	Oliter			Hyoerspace MDC 120	Y	Irritant	Y	CCM Water S Lot 4 & 6, jin 16/17A, 400 Tel: 603		1	9
BIOMATE MBC2881	N	4	Lie	quid		22			G۷		go ri gl	ety glass, afety oggles, ubber loves, pirator,	RC	DOI	170	Oliter			Dibromoacetonitrile, DBNPA, Sodium Bromide, MonoBromo-3- Nitrilopropionamide, 2,2- DIBROMOPROPANEDIAMIDE	Y	Irritant	Y	CCM Water S Lot 4 & 8, jin 16/17A, 400 Tel: 603		-	





SOHELP: Chemical Improvements

BEFORE



Hazardous chemical piping - damages



Level 4

Drums temp. staging - exposed

AFTER



Double containment – more protection



Provide containment trays & roofing – approved by DOE

SOHELP: Ergo Improvements – Drum Transfer

BEFORE

AFTER



Manual Drum Transfer



Installed extended hose system & location - No transferring of drum & turning needed



Uneven & rough floorings

Level 3



Provide new floorings

SOHELP: Noise Improvements



L4: Audiometric Testing

BEFORE

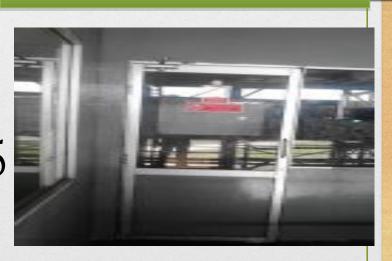


Level 5



L2: Suitable Ear protector

AFTER



Normal door

Soundproof door

07

SoHELP - Phase II

SoHELP - Phase II – No. of Participating Workplaces

No	State	Target	Achieved	% Achieved	% Active
1P	Perlis	10	9	90%	100%
2K	Kedah	20	22	110%	100%
3P.	? Pinang	20	21	105%	100%
4P	Perak	20	21	105%	100%
5 S	elangor	30	33	110%	100%
6W	VPKL	20	13	65%	100%
7N	Melaka	20	21	105%	100%
8N	V. Sembilan	20	20	100%	100%
9 J	ohor	30	30	100%	100%
10P	Pahang	20	20	100%	100%
11T	Terengganu	20	23	115%	100%
12K	Kelantan	10	13	130%	100%
13S:	arawak	20	20	100%	100%
14S	abah	20	25	125%	100%
15 W	VP Labuan	10	5	50%	100%
T	Total	290	296	102%	100%

Phase II Implementation Gantt Chart (2017 – 2018)

							201	17					100m/3.4.274
No.	Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	No v	Dec
1.	Preparation period												
2.	Attend SoHELP training												
3.	Train SHC members												
4.	SoHELP Checkpoints Assessment I												
5.	Develop Detailed Action Plan (AP)												
6.	Implementation of AP												
7.	SoHELP Checkpoints Assessment II												
8.	CEP Collection Y1												
9.	Compile Proof of Implementation												

Phase II Implementation Gantt Chart (contd)

NI.	Activities		2018										
No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10.	Implentation of AP												
11.	SoHELP Checkpoints Assessment III												
12.	SoHELP Checkpoints Assessment IV												
13.	CEP Collection Y2												
14.	Obtain certificate of appreciation												
15.	Compile Proof of Implementation												

08

SoHELP – Chemical Elements

Chemical Safety Legislations Enforced by DOSH

- 1 OSH (Control of Industrial Major Accident Hazards) Regulations 1996
- 2 OSH (Prohibition of Use of Substances) Order 1999
- OSH (Use & Standard of Exposure of Chemicals Hazardous to Health) Regulations 2000
- OSH (Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease) Regulations 2004
- OSH(Chemical Classification, Labelling and Safety Data Sheets) Regulations, 2013

Salient Provisions of USECHH

- Identification of chemicals hazardous to health;
- Permissible exposure limits;
- Assessment of risk to health;
- Action to control exposure;
- Labelling & Relabelling
- Information, instruction and training

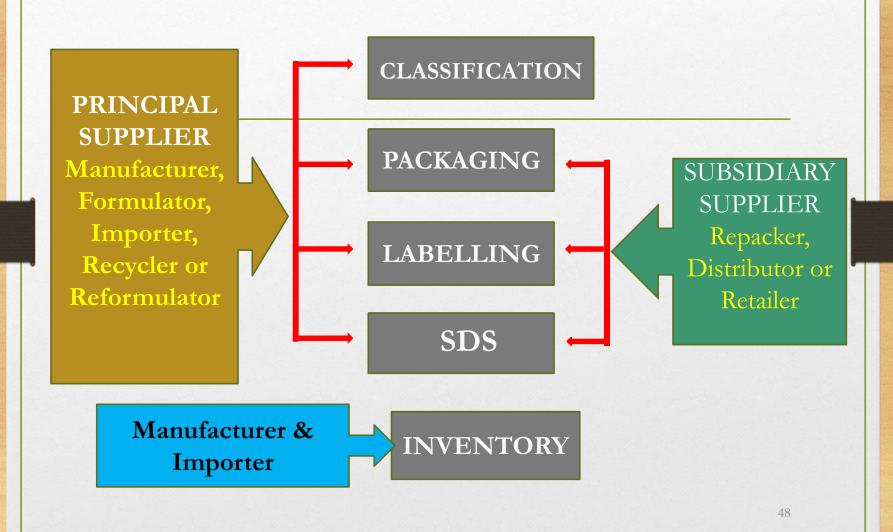


USECHH: Salient Provisions (cont)

- Monitoring of the exposure at the workplace
- Health surveillance;
- Medical Removal Protection
- Warning Sign
- Record keeping



Responsibilities of Supplier



Labelling: Subregulation 8 (1)

- Responsibility of supplier principal & subsidiary supplier
- Duty to ensure every packaging of hazardous chemicals is labelled legibly (jelas) and indelibly (tidak boleh dipadam) with:
 - 1. Product identifier
 - 2. Supplier identification
 - 3. Signal word
 - 4. Hazard statement
 - 5. Hazard pictogram
 - 6. Precautionary statement

Example of Label

Formaldehyde Solution

(CAS No.: 50-00-0)

Manufacturer (Pengilang)

ABCD Kimia Sdn. Bhd., 1126 Jalan Kg Attap, 50534 Kuala Lumpur. (24 Hr Emergency Tel No: +603-8888 8887)

Supplier (Pembekal)

WXYZ Kimia Sdn. Bhd., 1127 Jalan Kg Attap, 50534 Kuala Lumpur. (24 Hr Emergency Tel No: +603-8888 8889)

HAZARD STATEMENTS

- Causes skin irritation.
 (Menyebabkan kerengsaan kulit)
- Toxic if swallowed, in contact with or if inhaled.
 (Toksik sekiranya tertelan, tersentuh atau tersedut)
- Causes severe skin burns and eye damage.
 (Menyebabkan kelecuran kulit dan kerosakan mata)
- May cause an allergic skin reaction
 (Boleh menyebabkan kesan allergi kulit)







PRECAUTIONARY STATEMENTS

- Keep away from heat/sparks/open flames and hot surfaces.
 (Jauhkan daripada haba/cucuhan/nyalaan terbuka dan permukaan panas)
- No smoking. (Dilarang merokok)
- Avoid breathing vapour. (Elakkan bernafas wap)
- Use only outdoors or in well-ventilated area.
 (Guna di ruang luar atau kawasan pengudaraan baik.)
- Wash hand thoroughly after handling.
 (Basuh tangan dengan rapi selepas pengendalian)
- Obtain special instructive before use.
 (Dapatkan arahan khusus sebelum penggunaan)

Safety Data Sheets (SDS): Regulation 13

- 1. Identification of the hazardous chemical and supplier
- 9. Physical, chemical properties

2. Hazards identification

- 10. Stability and reactivity
- 3. Composition information on ingredients
- 12. Ecological information

11. Toxicological information

4. First aid measures

13. Disposal considerations

5. Fire fighting measures

14. Transport information

6. Accidental release

15. Regulatory information

7. Handling and storage

- 16. Other information
- 8. Exposure controls, personal protection

SAFETY DATA SHEET Solvent Wipe #120

Page: 1 Printed: 05/25/2011 Revision: 09/12/2009

1. Product and Company Identification

Product Code: SOLVENT #120
Product Name: Solvent Wipe #120
Reference #: AVS 1241014
Company Name: Standardized Sanitation Systems Inc
141 Middlesex Tumpike
Burlington, MA 01803

Emergency Contact: Emergency Information:

(404)422-2071 (617)273-2020

Product Category: Solvents

2. Hazards Identification

Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Target Organ Systemic Toxicity (single exposure), Category 3





GHS Hazard Phrases: H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation.

GHS Precaution Phrases:

P233: Keep container tightly closed.

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/sumplier of the competent authority.

P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.
P240: Ground/bond container and receiving equipment - if the explosive is

electrostatically sensitive.
P241: Use explosion-proof electrical/ventilating/lighting/... equipment ... other specified by the manufacturer/supplier or the competent authority. - if dust clouds can occur.

P243: Take precautionary measures against static discharge. P242: Use only non-sparking tools.

P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

GHS Response Phrases:
P370 +378: In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - if water increases risk.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell. P304-340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Displosal
Phrase:
Phrase:
P501: Displose of contents/container to ... (in accordance with local/regional/national/international regulation).
P405: Store locked up.
P409-233: Store container tightly closed in well-ventilated place - if product is as volatile

as to generate hazardous atmosphere.

MIRS MSDS, (c) A V Systems, Inc.

GHS format

LEVEL	CHEMICALS
5 (EXCELLENT)	 Implement all action to be taken in the CHRA/SiRAC report No new case of occupational disease related to chemical Implementation of continuous improvement programmes on chemical management
4 (ADVANCED)	 Implement most (50%) action to be taken in the CHRA/SiRAC report Reporting/notification of occupational diseases cases related to chemicals Good ventilation system
3 (INTERMEDIATE)	 Conduct CHRA/SiRAC Conduct information, instruction and training Implementation PPE programme Warning signs Good record system Integrate chemical management aspects into relevant SOPs
2 (BASIC)	 PIC attended SOHELP programme PIC conduct internal training on SOHELP PIC prepare Action Plan Prepare chemical register Label of CHH & SDS Availability and maintenance of welfare facility
1 (ENTRY)	 Commitment from management to implement program Appointment of person- in-charge (PIC) to implement program

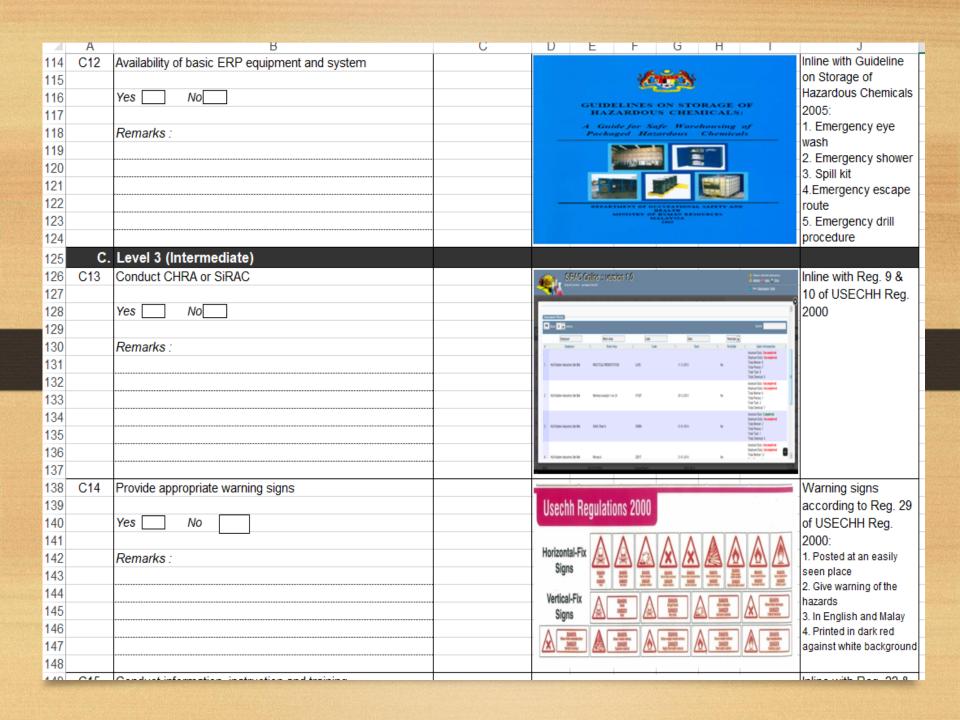
SoHELP – Chemical Health Hazard Checkpoints

1	Α	В	С	D	Е	F	G	Н		J
1	Check- point Ref. No.	Description	Date of Implementation							Guidance
2	A.	Level 1 (Entry)								
3	C1	Commitment from management to implement programme.							AMPIRAN 1	Letter of agreement
4				BORA	NG PERSETUA	UAN PENYERT	AAN PROGRA	M INTERVEN	H SOHELP	from management to
5		Yes No No		Dengan i di menyerta	ni saya, (Nama tempat i Program Interve	kerja) mi BOHELP.	bersetuju	elaku _(Jawatan / tidak bersetuju	untuk	participate in
6				Pihak syl abertanga Bil. 3	arikat juga berset jungjawab untuk Yama	metakaanakan p	tik penama beri rogram ini:	Jawaian	ng yang	programme
7		Remarks :								
8				Siekian, te	orima kasib.					
9				Nama:						
0				Tarikhi						
1				*Potong	mana yang ridak b	erfenses				
	C2	Appointment of person-in-charge (PIC) to implement			-				LAMPIRAN I	Letter of appoinment
2		programme		BORA?	NG PERSETUJU	AN PENVERT	AAN PROGRA	M INTERVEN	SI SOHELP	for PIC
3				Dengan in	(Nama tempat k	erja)		elaku _(Jawatar / tidak bersetuju		issued/endorsed by
4		Yes No		Pihak ayas	Program Interven rikat juga berseti ingjawah untuk s ama	the sentrals median	tik penama beri rogram ini:		ng yang	management
5				Bil. No	****	No. KP		Jawatan		J
6		Remarks :		Sekian, tor	rima kasib					
7				Sexian, tor	Kasin.					
8				Nama: Tarikh:						
9										
20				*Potong m	ana yang tidak be	rkenaan				

21	В.	Level 2 (Basic)			
22	C3	PIC attended program		Proof of attendance	
23		· -	Sijil Penyertaan JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN	(certificate)	
24		Yes No	JOHOR (KEMENTERIAN SUMBER MANUSIA)		
25			Adalah Dengan Ini Disahkan Dahawa (NAMA PESERTA DAN NO. KP)		
26		Remarks :	Tolah melahjanahan dengan jayanya / Tolah menyertai		
27			PROGRAM INTERVENSI SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAM (SOHELP)		
28			dan memenuhi kelayakan untuk dianugerahkan GEP sebanyak 30 bagi tahun 201 é		
29					
30			Ir. Hi.Narmain, Win Hi. Mohd Noor		
31			Ermenh Jaharen Kandemung dan Kecibasan Echecjean Jahar		
32	C4	Provide a place for workers' meeting & training		Inline with Reg. 22	_
33				SHC Reg. 1996	
34		Yes No			
35					
36		Remarks :			_
37					
38					
39					
40					
41	C5	Provide and maintain basic welfare facilities		Inline with Sect.	
42				15(2)(e) of OSHA	
43		Yes No		1994 and SHW Reg.	
44				1970	
45		Remarks :			
46					
47					
48					
49					
					_

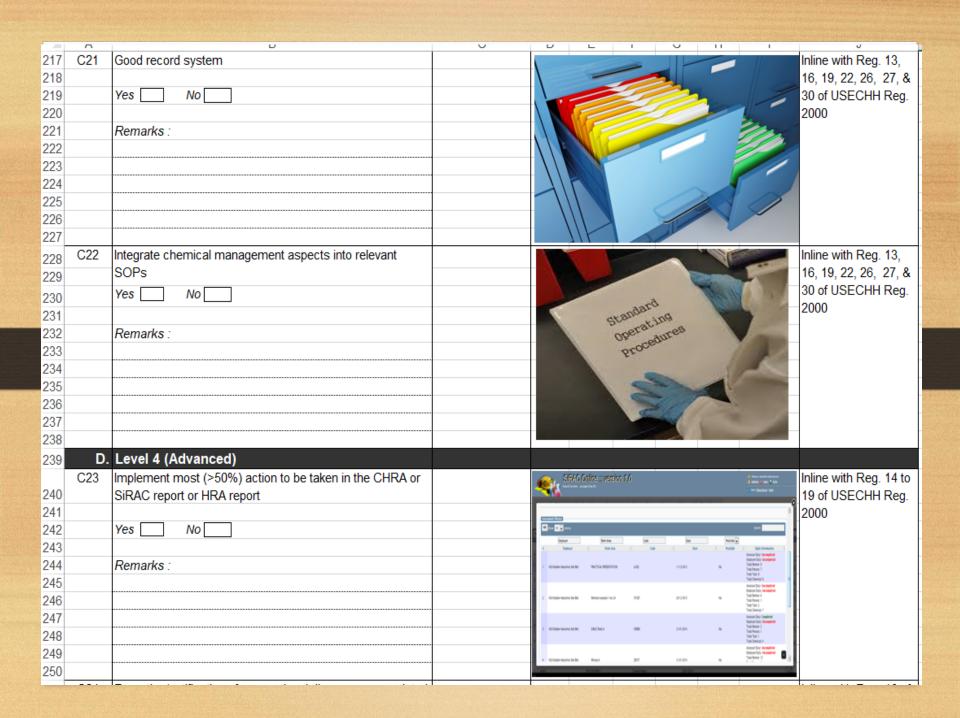
PRINT			, , , , , , , , , , , , , , , , , , , ,	
50	C6	PIC prepare action plan	Gantt Chart	Gantt chart/action
51			Gailli Cilaii	plan
52		Yes No No	W/W P2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
53			A DESCRIPTION OF THE PROPERTY	
54		Remarks :	graduate (1)	
55			State	
56			Committee of the commit	
57			11/2002/stack/20194677	
58			1 1000a, 101a	
59			E Superiority for 1 to 100 to	
60				
61	C7	PIC to conduct internal SOHELP training	Employee Passes TRAINING RECORD	
62		_	Job Tile: Her Side: Surprise Aff's Experience Service State Service Se	
63		Yes No	Job Chessystem (in specific sector bending 6,644). Transportion: Labor: Company-though discountscope.	
64			The state of the s	
65		Remarks :	And the second s	
66			The state of the purpose of the state of the	
67				
68				
69				
70			100 1000	
71	C8	Availability of complete chemical register	DECTOR B. LIATO O CHERCAL HAZARDOUS TO HELL'S UKAYON [[[[]]]]	Chemical register
72			MODIFIE PROVIDE	according to Reg. 5 of
73		Yes No	MARKET MARKET POPERATION OF TOTAL OF INSTITUTE DESIGNATION DESIGNATION OF INSTITUTE DESI	USECHH Reg. 2000
74			(1900) 177 900077 1000 (3.50 MHz) (1900) (3.50 MHz) (3.50	1. List of all CHH used
75		Remarks :		Updated SDS The average quantity
76				used/produced/stored
77				per month or per year
78				4. Process or work area
79			HECTOR, E., MARE SF PRINCE, THIS PREPARED, AND REVENEDS METHOD SF	where CHH are used
80				5. Suppliers' name &
81			NATE	address

82	C9	Label of chemical hazardous to health on container	Formaldehyde Solution DANGER BAHAYA	Label follows Reg. 8
83			Manufacture (Penglang)	of CLASS Reg. 2013:
84		Yes No No	ABCD Kimila Sén, Bhd., 1126 Jalan Kg Atlap.	Product identifier
85			5055M Kulle Lumpur. (14 Hr Emeryency Tel No. +003-608 8087)	2. Supplier identification
86		Remarks :	Supplier (Pembekal) WXXIZ Xinna San. (thd.,	3. Signal word
87			1127 Jalan Kg Altap, 50534 Kuala Lumpur.	Hazard statement Hazard pictogram
88			(24 HC Emergency HAZARD STATEMENTS PRECAUTIONARY STATEMENTS	6. Precautionary
89			Causes skin intration. Keep away from healthparkslopen fames and hit surfaces. (Manyabatkan kerengsaan kult) (Jubkan darpada habatusuhaninyalian terbuka dan pernukaan panas) // Asia (Keepland, in product with orid lahabat.)	statement
90			(Toksik sekiranya tertelan, tersentuh atau tersedut) Causes severe skin burns and eye damage. Avoid breathing vapour. (Elakkan bemafas wap)	7. English/Malay
91			(Maryyobahan kelecuma nutif dan keresakan mata) User uniformatikan mata) User uniformatikan kelecuma nutif dan keresakan mata) User dan uniformatikan keleman pengudaran bak.) (Bulah menyebatkan kelan atleng kult)	language
92			Obtain special instructive before use. (Dapatkan arahan khusus sebelum penggunaan)	8. Easily seen
-	C10	Availability of safety data sheets for chemicals according to		SDS according to
93		CLASS Reg. 2013	DAPETY DATA SHEET Figure 1 Footback Street Company (Description) 1. Excellent size Company (Description)	Reg. 13 of CLASS
94		52 102 110g: 2010	Profession Research Substance (Values W 100 Individual Research Substance (Values W 100 Individual Research Substance (Values D 100 Individual Research S	Reg. 2013
95		Yes No	Product Category: Solvests 2. Hazards Identification	1. 16 elements in
96			CHI Situan and Phaemania Chi and part of the Chi and t	order
97		Remarks:	OHS Precupition Placement 1970. May concern required by interesting the process of the Precupition Placement 1970 in the construction (see Figure 1970) in the construction (see Figure 1970) in the construction of the construct	English/Malay
98			electric metales with an execution of the state of the st	version
99			A STATE OF THE ADMINISTRATION OF THE ADMINIS	VC131011
100				
101			OHR Stronge and Ring and Philips and Philips and Philips and Philips and Philips and Philips and American Communication and Philips and Communications to Los and Communication and Philips and Communication and Communication and Philips and Communication and Philips and Communication and Philips and Communication and Communication and Philips and Communication and Commun	
102			MATERIAN DIA Y SURBIA DE SALA PARA PARA PARA PARA PARA PARA PARA P	
103	C11	Proper storage of chemicals	Chemical Compatibility Chart	Inline with Guideline on
104			1 horganic Acids 1 2 Dramet acids X 2 1 Carettes X X 3	Storage of Hazardous
105		Yes No	4 Anthres & Athanslansines X X X 4 5 Hologanized Congruents X X X 5 6 Alcoholo, Special & Gycal Ethers X 6	Chemicals 2005:
106			7 Attitises	Procedure of receiving and disposal
107		Remarks:	9 Submarted Hydrocarbons 9 9 10 11 Oldmartic Hydrocarbons X 11 Oldmartic Hydrocarbons X X 15 15 15 15 15 15 15 15 15 15 15 15 15	Design of storage area
108			S) Putrolius Olis	Proper chemical
109			15 Phenets X X X X 15	separation and
110			V X X X X X X X X X	segragation
111			20 Malegiers	4. Security of storage
			Management Chairment	area
112			X Represents Usuale Combinations	
113			Caprosents Safe Combinations	



149	C15	Conduct information, instruction and training		Inline with Reg. 22 &
150		SOCIONAL SIGNATURA SIGNATU	TRAINING RECORD do file the training t	23 of USECHH Reg.
151		Yes No	Jan Description A specific states housing duties Final policy Labor Companion Account (Account	2000
152		000000	# 1 5 4 4 5 1 4 4 5 5 4 5 6 5 6	
153		Remarks :	And the second s	
154			And the second s	
155			The first term of the control of the	
156				
157				
158				
159				
	C16	Clearly mark areas requiring the use of personal protective	CONTRACTOR OF THE PROPERTY OF	Inline with Reg. 16 of
160		equipment.		USECHH Reg. 2000
161			DANGER: WEAR YOUR RESPIRATOR	
162		Yes No NA NA	RESPIRATOR F	
163		10.101		
164		Remarks:		
165			FIRE	
166			CALL SAIT	
167				
168				
169				
170			A l	
171				
	C17	Provide adequate, well-fitted and easy-to-maintain personal		Inline with Reg. 16 of
		protective equipment when risks cannot be eliminated by		USECHH Reg. 2000
172		other means.		
173				
174		Yes No NA NA		
175				-
176		Remarks:		
177			MANUTURE TO THE STATE OF THE ST	
178				
179				-
180				
181				-

	C18	Make sure that everyone uses personal protective	Inline with Reg. 16 of
183		equipment where it is needed.	USECHH Reg. 2000
184			
185		Yes No NA	GOGGES AND SHELD
186			
187		Remarks:	Amoris Rismaices
188			
189			
190			
191			GLOVE -
192			TOOTHEA
193			- Grand
	C19	Establish and implement procedures on the issuance,	Inline with Reg. 16 of
194		maintenance and inspection of the PPE	USECHH Reg. 2000
195		Than to take the mopestion of the fire	
196		Yes No NA	
197			
198		Remarks :	
199			
200			dine & Comment
201			
202			
203			
204			Marin 1
205	C20	Provide proper storage for personal protective equipment.	Inline with Reg. 16 of
206			USECHH Reg. 2000
207		Yes No NA	
208			
209			
210		Remarks :	
211			
212			SA PROTECTORS
213			The same of the sa
214			
215			
216			
	004		1 11 11 11 11 11 11



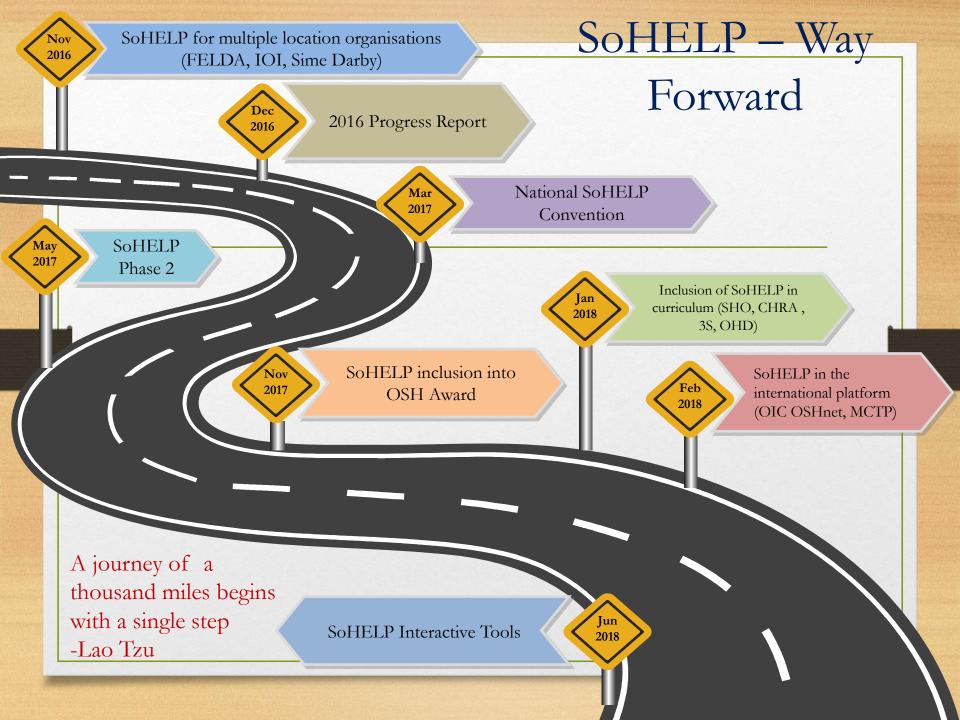
	/ 1			U CONTRACTOR OF THE CONTRACTOR
	C24	Reporting/notification of occupational diseases case related	ACP 1. LAPINAM RESIGNAM VERMA ANGARDA	Inline with Reg. 10 of
		to chemical	Singer A. Solution Featuration Solution 5- Design physician Solution 5 Market Soluti	NADOPOD Reg.
251		ROSECULO SELECCIONE I		1994
252			per time ratios	1001
253		Yes No NA	\$1.00 (a) The state of the stat	
254			W New Control of the	
255		Remarks :	The state of the s	
256			- Indian	
257				
258			Annual subsection of a contained beautiful contained and annual subsection of an indicate and annual subsection of a contained and annual subsection of a contained and annual subsection of a contained annual subsection of a contain	
259				
260			The first later was	
261			Name On the Control of the Control	
	C25	Install effective local exhaust systems which allow efficient	CA	Inline with Reg. 17,
262		and safe work.	Por	18 & 19 of USECHH
263		7 C C C C C C C C C C C C C C C C C C C	The state of the s	Reg. 2000
264		Yes No NA		Note that the second se
265			O NO DE	
266		Remarks:		
267				
268				
269				
270				
271				
272				
	C26	Increase the use of natural ventilation when needed to	101	Inline with Reg. 17,
273		improve the indoor climate.		18 & 19 of USECHH
274				Reg. 2000
275		Yes No NA		
276				
277		Remarks :		
278				
279			+ + + + + + + + + + + + + + + + + + +	
280				
281				
282			Tigure ôfa. Air-flow coutes in buildings of different design	
283	0	3	representation of the property of the state	

	A STATE OF THE PARTY OF THE PAR		_			
	C27	Improve and maintain ventilation systems to ensure good		1.	1 1	Inline with Reg. 17,
284		workplace air quality.				18 & 19 of USECHH
285		montplace all quality.				Reg. 2000
286		Yes No NA				11cg. 2000
287		TCO NO NA		1/	1/ 1/	
		Description :		- 1	// //	
288		Remarks :		/	/ /	
289						
290						
291						
292						
293						
294				一	LAH LAH	
295	E.	Level 5 (Excellent)				
	C28	Implement ALL action to be taken in the CHRA or SiRAC		SIRAG Online :: Westion 1.0	-) Non-strik storate -) Mini -) In -) No	Inline with Reg. 14 to
296		report or HRA report			(= team to	19 of USECHH Reg.
297		· ·		Novabet Stop		2000
298		Yes No		Department Station Co.	See Sees C	
299				F Deploy I Tolk los I Cale	1 Don 1 Noble 1 Distribution 1 Assurably lengthed Dates for lengthed	
300		Remarks :		1 NAMES MARKET BEN ANCIOLARDISONION LIFE	1030 to Solver 1 Solver 2 Solver 3	
301		Tomano.			Assess by Insephile Instantial Variables	
302				, constituent transport, no	Testhered Testhe	
303				3 Kilderidanistehi SECheli 1991	Assert by Coapled Instructory Excepted 2-0-201 to Tourise 2 Tourises 1	
304					Transfer of Transferrat in Assess by Designed	
305				i Shibirature In M. Book 207	262K to Select B	
303	C29	No new case of occupational disease related to chemicals		JACOP 6 - LAPORAGO METOLENIA VERNAL ANTIANOVER ANDRAS REPRESENTA	ALT: LATERAL MANUFACTOR CALL AND PARTY OF PARTY AND	Inline with Reg. 10 of
306	028	INO New case of occupational disease related to chemicals		Bahagian A. Mathunat Pambanlahu Bahagian B. Orang yang belikal Panbanin: France I (MC) Rahan Januar at Hamagian B. Orang yang belikal	Subsections and Control of the Contr	NADOPOD Reg.
307				Amou Series Topics Topi	Section Sectio	1994
		Yes No		Section Committee Committe	N. TANSA N. TANSA N. TANSA	1994
308		res No		No. Taulos Tamin das Masos Augulas Tamin das Masos Augulas Tamin das Augulas (MASO Augulas) Tamin das Augulas (MASO Augulas)) The cost time division that the said.	
309		Demonto		Bahagian C - Hurston temaknyan alau tapahan berhahaya Na turaknyaya yang batan salahan, satuan dan satujun sepatan	Strape 6 - Dang yeq Telbel Stages 6 - Execuse Trapes Project Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	
310		Remarks :			St. O'THE Property Services (Services Services S	
311					Aus route	
312					Subseque S Tomos colonges con contracts to destrict contract publication of the broken coloning belonging that of the right party belonging to page total contract upon because of the broken coloning belonging that of the right party belonging to page total contract upon because of the contract in coloning to the coloning belonging to the coloning to the coloni	
313					personne males deleng que certais sep, conte cere yay point. At belless que bellemen	
314				Table Table Delice	Secretary Secretary	
315				Table: Finalise Super-Security and computing people is non-school helicity and company people from	Margine May to come to the amplifer complete to the advantage field the state and the party to come	

316 (C30	Implement chemical management promotion	
17	000	implement enemical management promotion	
18		Yes No	
19		5.900	
320		Remarks :	
321		11 - 11	
322			
323			
324 325			
	C31	Review policy, budget and planning on OSH	Plan D.
327		Voc No No	Lan Lo
328 329		Yes No	
330		Remarks :	
31		incliains.	
32			Act
333			
334			
335			

09

Way Forward



STRATEGY 4: OSHMP 2020 Mainstranning The Hydriana Indi

)		Zwi		9
4		2		3
		We a	W	
-	BERSEKUTU	ERTAMBAH MUTU	1 Si	is on
		300		

Mainstreaming The Hygiene Industry

PROGRAMME	ACTIVITIES
PROGRAMME 1	A1. Implementation of SoHELP (National Level) A2. Sustainable noise exposure management in the workplaces A3. Study on the importance of the information related to the occupation in the identity documents, health record and death certificate
PROGRAMME 2	A1. Ergonomic assessment and evaluation in the workplaces A2. Study on health risk assessment and control in the workplaces
PROGRAMME 3	A1. Study on the implementation of Occupational Health Services (OHS) in the workplaces A2. Basic Occupational Health (BOH) according to industrial sectors
PROGRAMME 4	A1. Hygiene industry promotion and publicity (Formation of Industrial Hygiene Catalyst Committee – IH2C)
PROGRAMME 5	A1. Enhancement of the uniformity of classification and hazard communication of hazardous chemicals A2. Improvement the management of chemical hazardous to health in the workplaces A3. Increase the investigation of occupational disease cases A4. Enhance the medical surveillance programme in the workplaces A5. Strengthen hygiene industry enforcement and monitoring A6. Strengthen control of industrial chemicals entry into Malaysia (No CLASS no Entry)

SoHELP Promotion – 2016

CWC States Parties Conference (The Netherlands) ILO –KOREA Occupational Safety and Health (OSH) Project (Myanmar)

Seminar on Chemical Safety and Security Management for Member States of SAARS and ASEAN Member States (Bangladesh)

- 1. MIHA International Conference & Exhibition
- 2. 24th IUPAC International Conference on Chemistry Education (ICCE)
- 3. FMM OSH Conference
- 4. National OSH Week, Salam FM Radio Programme, National Newspaper

Benefits of SoHELP

EMPLOYERS

- -IMPROVEMENT OF WORKPLACE CONDITIONS
- -HELP TO COMPLY REGULATIONS REQUIREMENT
- -INCREASE WORKERS MORALE
- -REDUCE ABSENTEEISM
- -IMPROVE COMPANY IMAGE
- -ENHANCE PRODUCTIVITY

EMPLOYEES

- -SAFER WORKING ENVIRONMENT
- -GET INVOLVE IN THE PROGRAMME IMPLEMENTATION
- -GAIN PRACTICAL KNOWLEDGE & EXPERIENCE
- -IMPROVE PRODUCTIVITY

OSH PRACTIONER

- -LEARN SYSTEMATIC METHODS OF CONTROLLING OCCUPATIONAL HEALTH RELATED HAZARDS AT THE -LONG TERM REDUCE WORKPLACE
- & PRACTICE PERTAINING TO OCCUPATIONAL HEALTH
- -ENTITLE FOR CEP: MAXIMUM OF 30 POINTS PER ANNUM

NATION

- -IMPROVE PRODUCTIVTY
- HEALTHCARE COST
- -ENHANCE KNOWLEDGE, ATTITUDE -STIMULATING MORE EFFICENT WORKING METHODS & TECHNOLOGIES



10 Conclusions

Conclusions

- Result for Phase I:
 - 214/220 (97%) workplace participate in this programme
 - National 4.31/5 achieved (C: 4.22, N: 4.40, E: 4.33)
 - 214 SHO, 8 assessors and 39 involved
 - 135,885 workers was benefited in Phase I
- Synergistic DOSH Industry cooperation and Industry Industry cooperation is crucial to enhance workplace occupational hygiene standard.
- Phase II: May '17 May '18
- Participation rate: 296/290 (102%!)



SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SOHELP)

National platform for STRATEGIC and
SYNERGISTIC COOPERATION between
GOVERNMENT, EMPLOYERS, OSH
PRACTITIONERS, and EMPLOYEES to
ENHANCE INDUSTRIAL HYGIENE
STANDARD in the workplaces



Q&A SESSION

