

ON Semiconductor®

SOHELP PROGRAM IMPLEMENTATION IN ON SEMICONDUCTOR MALAYSIA SDN. BHD. (ISMF) - SEREMBAN

by Devachitra Theavaretnam Mac 15th, 2017

PRESENTATION OUTLINE

- * INTRODUCTION
- SOHELP IMPLEMENTATION
- PROMOTIONAL ACTIVITIES
- OVERALL OVERVIEW OF SOHELP
- * RECOMMENDATIONS FOR FUTURE SOHELP ENHANCEMENTS



INTRODUCTION - COMPANY BACKGROUND

- ON Semiconductor is a leading supplier of semiconductor based solutions. operates throughout North America, Europe and Asia Pacific regions
- ON Semiconductor Malaysia Sdn. Bhd. was incorporated in 1979. It has two sites in Seremban, Malaysia that houses wafer manufacturing (ISMF) and assembly/test operations for a wide variety of semiconductor products.
- ISMF was established in 1987 approximately 1100 employees, which is a high volume wafer fab with 50,000 square feet of clean room space, located on a 6 acre campus, which has semiconductor manufacturing of 6", 8" and 12" wafer.
- Our main products are:

- automotive - communications

- computing - consumer

- industrial - medical

- military - aerospace applications

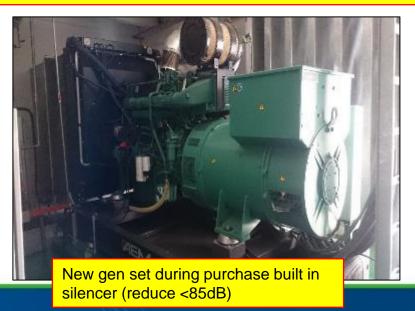


SOHELP - NOISE IMPROVEMENTS

LEVEL 4



Install sound proof equipment & building windows for the N2 plant area which is adjacent to the building(<80dB)







Install silencer for the exhaust system (<60dB)

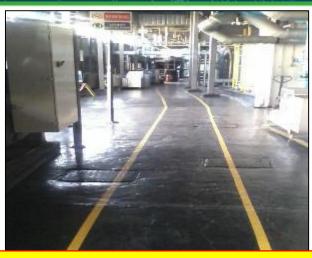
LEVEL 4

SOHELP - NOISE IMPROVEMENTS

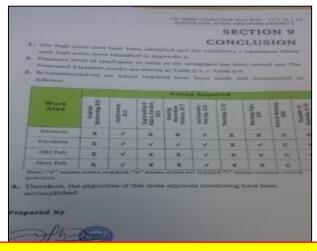




Conduct noise exposure assessment for work areas



Re-map the walking area & working area at hearing conservation area (yellow line) (<80dB)



Complete and continuously monitor the actions from the assessment report



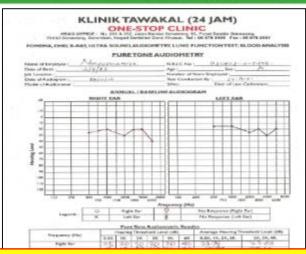
SOHELP - NOISE IMPROVEMENTS

LEVEL 4



Conduct yearly audiometry testing for employees under hearing conservation program





Review audiometry results with OHD doctor and communicate with the employees

Hearing Conservation Training



















Conduct hearing conservation training for employees at the respective areas

LEVEL 5









Chemical drums are transported using lifting mechanism - hand pallet jacks - reduce back pain and physical force

LEVEL 5



Improper inspection scope area with average lighting which cause blurry vision for employees



Employees pursuing wafer inspection work in standing position causing back pain and fatigues



Proper inspection work station with bright lights to reduce fatigues and prevent visionary issues



Wafer Inspection area were provided with cushioned adjustable chairs with back rest to avoid back pain and fatigues

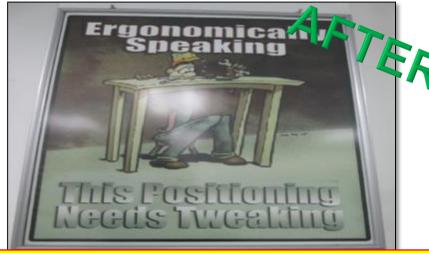
LEVEL 5



Improper staging of by products and no implementation of 5S

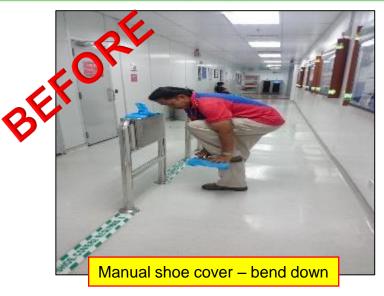






OSH awareness on Ergonomics - signage and posters are made available for employees

LEVEL 5



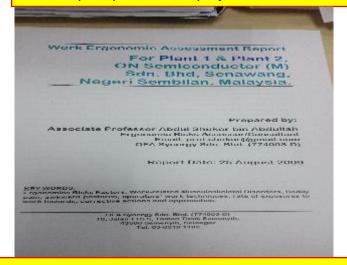
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Conduct body symptom survey for ergonomics concern employees



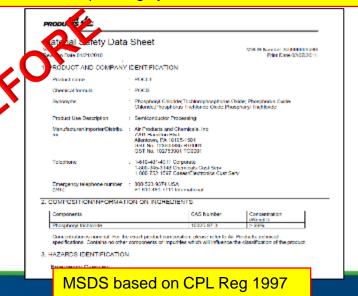


Automatic shoe cover – suitable for pregnant or back pain problem employees

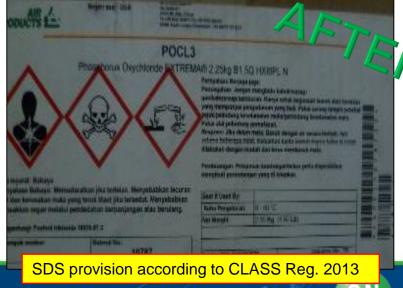


Conduct ergonomics assessment for work stations



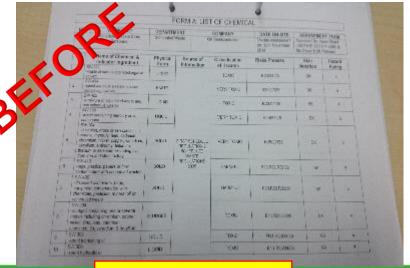




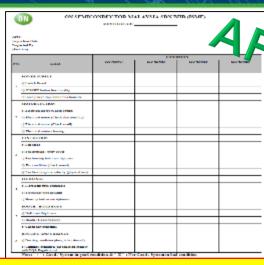




LEV inspection - 100% depends on hired Hygiene Technician



Older Chemical Register



Developed internal monthly LEV Checklist with technical expertise reference from Hygiene Tech

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Improvisation on the updated Chemical Register

ON SEMICONDUCTOR SCG Industries (M) Sdn Bhd

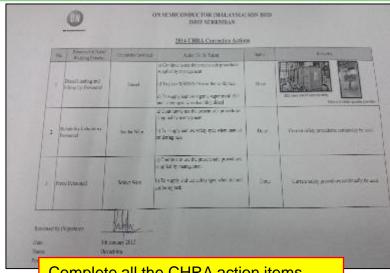
9.0 CONCLUSIONS

The Chemical Health Risk Assessment was conducted at ON SEMICONDUCTOR SCG Industries Sdn Bhd , Lot 55, Senawang Industrial Estate,70450 Seremban, Negeri Sembilan

It was conducted from 12th November 2014 with final assessment on 5th January 2015 and last document confirmation on 5th January 2015 is in compliance to the requirement spelled out under the Occupational Safety and Health (Use and Standard of Exposure of Chemicals Hazardous to Health) Regulations 2000.

The assessment enabled the organization to make appropriate decisions on action to be taken to minimize further the workers exposure to chemicals hazardous to health used in the work place. Various recommendations which are deemed appropriate by the assessor have been laid down in the report. It is hoped that the recommendations will help to create a better working environment, further improve the quality of work, health and safety standards in ON SEMICONDUCTOR SCG Industries Sdn Bhd. In conclusion, this assessment has successfully met its objectives

Conduct CHRA every 5 years

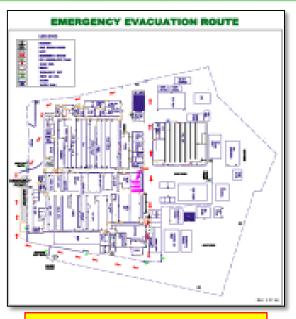


Complete all the CHRA action items



Yearly chemical exposure monitoring – area & personal

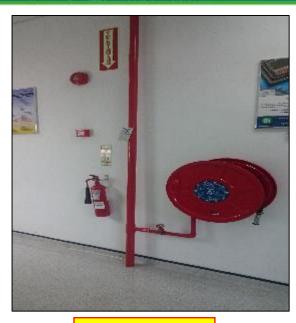




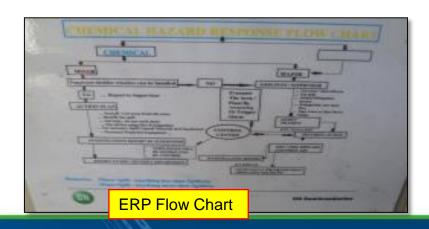
Emergency Evacuation Route



Emergency eyewash / shower



Fire fighting tools





PROMOTIONAL ACTIVITIES

- Incorporate SOHELP concepts into our EHS Week 2016
 - Health Talks related to Ergonomics (Physiotherapy, Back Pain Management)
- Monthly EHS promotional activities
 - Noise related quizzes / information sharing
 - Chemical related communications











PROMOTIONAL ACTIVITIES

- Quarterly EHS video shooting
 - PPE during chemical handling awareness
 - Forklift safety awareness
- Monthly & Quarterly EHS award / recognitions
 - Unsafe act reporting related to EHS, not limiting to SOHELP contents
 - Unsafe condition reporting related to EHS, not limiting to SOHELP contents





OVERALL OVERVIEW OF SOHELP

- Good program to start off among the various industries in Malaysia
- Good consultation and able to bond a good working relationship among companies and DOSH officers
- DOSH to understand the difficulties faced by companies related to SOHELP issues and move towards enhancement



RECOMMENDATIONS FOR FUTURE SOHELP ENHANCEMENTS

- Better recognition & awards for the company and individuals related to SOHELP program implementation
- Detailed guideline by DOSH for implementations
- Fun motivating program rather than strict enforcement program
- Categorize the companies into industrial groups for better comparison and bench marking





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THE END

- THANK YOU -

