

Organised by:



STANDARDS
MALAYSIA

SEMINAR ON

ERGONOMICS IS ECONOMICS

5 SEPTEMBER 2013

FULLER HOTEL, ALOR STAR, KEDAH

Introduction

Ergonomics or Human Factors Engineering is defined as the development and application of human system interface technology that is compatible with the capabilities of human beings in order to improve the quality of life. The safety, health, comfort, usability and productivity of humans can be improved with Ergonomics by minimizing the risks of injury, fatigue, pain and error. Recent trends have shown that work related musculoskeletal disorders (MSDs) and compensation costs for this type of disease are on the increase in many industries. Malaysia is also experiencing the same problems as it moves towards being an industrialized nation. Reports from SOCSO indicated that the number of cases has risen from 2 in the year 2000 to 326 in 2012. It is believed that many cases have not been reported due to lack of understanding and awareness of ergonomics. Ergonomics also has been highlighted as one of the important OSH Strategic Drivers under Occupational Safety and Health Master Plan for Malaysia 2015 (OSH-MP 15).

Studies have shown that implementing an ergonomics programme is not expensive when compared to the direct and indirect costs of an injury. Many standards in ergonomics have been widely accepted globally and locally and these can be implemented at the workplace. Malaysian Standards (MS) on Ergonomics have also been developed by the Ergonomics Technical Committee established within the National Standards Development Systems under the purview of Department of Standards Malaysia (STANDARDS MALAYSIA), a government agency of the Ministry of Science, Technology and Innovation (MOSTI). As of to date, a total of 99 Malaysian Standards (MS) on Ergonomics have been published by Standards Malaysia covering guidelines of workplace design, specifications, test methods and other aspects related to Ergonomics.

This seminar aims to provide a greater understanding on the importance and relevance of Ergonomics, to expose the industrial sector to the standards available that can be implemented, and to demonstrate how ergonomics can be beneficial to their business performance.

Supported by:



Objectives

The seminar will provide:

- ♦ An awareness on the benefits of having ergonomics at the workplace
- ♦ The latest information on ergonomics standards locally and internationally
- ♦ A platform for discussion on implementing or adopting these standards in the companies
- ♦ A feedback on the level of awareness of ergonomics practices in the industries

Target Audience

This seminar would be of great interest and benefit to:

Chief Executive Directors, Managing Directors, Policy Developers/ Decision Makers/ CEOs/ CTOs/ Academia researchers and everyone involved in ergonomics from:

- ♦ Government and local authorities
- ♦ Academia and research institutions
- ♦ Service and Utilities industries
- ♦ Oil and Gas Industries
- ♦ Manufacturing Industries
- ♦ Hotels
- ♦ Associations
- ♦ Members of the relevant Technical Committees and Working Groups
- ♦ Construction industries
- ♦ Agricultural industries
- ♦ Commercial industries
- ♦ Banking and Financial industries

Participant will get 1 **FREE**
MS ISO 11226:2003

Managed by:



ORGANISED BY:



TENTATIVE PROGRAMME

Time	Programme	
8:00 a.m.	Registration	
9:00 a.m.	Opening Remarks	Director General Department of Standards Malaysia (Standards Malaysia), Ministry of Science, Technology and Innovation (MOSTI)
09:30 a.m.	Paper 1: The Importance of Standards	Standards Malaysia
10:00 a.m.	Paper 2: Investing in Ergonomics: Money and \$ENSE	Prof. Rosnah Mohd. Yusuff Universiti Putra Malaysia (UPM)
10:45 a.m.	Tea Break	
11:15 a.m.	Paper 3: Malaysian Ergonomics Standards	Associate Prof. Dr. Evelyn Guat Lin Tan Universiti Sains Malaysia (USM)
12:00 noon	Paper 4: Ergonomics Cases and Compensation	Datin Dr. Nik Amsharija Mohamed The Social Security Organisation (SOCSO)
12:30 p.m.	Paper 5: Ergonomics from DOSH Prospective	Mr. Husdin Che Amat Department of Occupational Safety and Health Malaysia (DOSH)
1:00 p.m.	Lunch	
2:00 p.m.	Paper 6: Ergonomics in the Aviation Industry (MTUC)	Mr. Matdiah Mohammad Malaysian Trades Union Congress (MTUC)
2:45 p.m.	Paper 7: Ergonomics Application in Industries Experience and Perspectives from the West	Prof. Keith Case University of Loughborough, United Kingdom
3:30 p.m.	Panel Discussion	Moderator : Associate Prof. Dr. Evelyn Guat Lin Tan Panelists : All Speakers
5:00 p.m.	End of seminar/Tea break	

SUPPORTED BY:



MANAGED BY:



List of Malaysian Standards on Ergonomics

Malaysian Standards (MS) as listed below are available for sale in hardcopy/CD. Please tick if you wish to purchase it now and wish to get it during the seminar. The below standards as well as many other standards, are also available for purchase at www.msonline.gov.my.

NO	MS NO	TITLE	PRICE	PLEASE TICK (✓)
A		Accessible design		
	MS ISO 20282-1:2009	Ease of operation of everyday products – Part 1: Design requirements for context of use & user characteristics	RM 40	
	MS 2329:2010	Ease of operation of everyday products – Test method for walk-up-and-use products	RM 40	
	MS ISO 24500:2012	Ergonomics – Accessible design – Auditory signals for consumer products	RM 20	
	MS ISO 24501:2012	Ergonomics – Accessible design – Sound pressure levels of auditory signals for consumer products	RM 30	
	MS ISO 24502:2012	Ergonomics – Accessible design – Specification of age related luminance contrast for coloured light	RM 20	
	MS ISO 24503:2012	Ergonomics – Accessible design – Tactile dots and bars on consumer products	RM 10	
B		Guiding Principles & Muscular workloads		
	MS ISO 6385:2005	Ergonomics principles in the design of work systems	RM 20	
	MS ISO 10075:2009	Ergonomics principles related to mental work-load – General terms & definitions	RM 10	
	MS ISO 10075-2:2009	Ergonomics principles related to mental work-load Part 2: Design Principles	RM 20	
	MS ISO 10075-3:2009	Ergonomics principles related to mental work-load Part 3: Principles & requirements concerning methods for measuring	RM 20	
	MS ISO/TS 20646-1:2007	Ergonomic procedures for the improvement of local muscular workloads –Part 1: Guidelines for reducing local muscular workloads	RM 190	
C		Human-System Interactions : Standards related to Control Centres		
	MS ISO 11064-1:2003	Ergonomic design of control rooms Part 1: Principles for the design of control centres	RM 40	
	MS ISO 11064-2:2003	Part 2 : Principles for the arrangement of control suites	RM 30	
	MS ISO 11064-3:2003	Part 3 : Control Room Layout	RM 50	
	MS ISO 11064-4:2007	Part 4 : Layout and dimensions of workstations	RM 260	
	MS ISO 11064-5:2010	Part 5 : Displays and controls	RM 60	
	MS ISO 11064-6:2007	Part 6 : Environmental requirements for control, centres	RM 210	
	MS ISO 11064-7:2007	Part 7 : Principles for the evaluation of control centres	RM 210	
D		Ergonomics of Human System Interaction - Flat screen & others		
	MS ISO 13406-1:2007	Ergonomic requirements for work with visual display based on flat panels Part 1: Introduction	RM 90	
	MS ISO 13406-2:2007	Ergonomic requirements for work with visual display based on flat panels Part 2: Ergonomic requirement for flat panel displays	RM 460	
	MS 2406:2011	Ergonomics of human system interaction – Specification for the process assessment of human system issues	RM 120	

NO	MS NO	TITLE	PRICE	PLEASE TICK (✓)
E		Physical Environment: - Thermal Environment		
	MS ISO 7243: 2009	Hot environments - Estimation of heat stress on working man, based on the WBGT- index (wet bulb globe temperature)	RM 20	
	MS ISO 7726:2009)	Ergonomics of the thermal environment - Instruments for measuring physical quantities	RM 60	
	MS ISO 11399:2010	Ergonomics of the thermal environment – Principles and applications of relevant international standards	RM 30	
	MS 2327:2010	Ergonomics of the thermal environment -Application of Malaysian standards to people with special requirements	RM 20	
	MS ISO 15265:2008	Ergonomic of the thermal environment- Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions	RM 20	
F		Special Needs		
	MS ISO/IEC Guide 71: 2012 (ISO/TR 22411:2008)	Guidelines for the application of MS ISO/IEC Guide 71 to products and services to address the needs of older persons and persons with disabilities	RM 40	
	MS ISO 7731:2007	Ergonomics – Danger signals for public & work areas- Auditory danger signals	RM 190	
	MS ISO 9921:2007	Ergonomics – Assessment of speech communication	RM 240	
	MS ISO 11428:2009	Ergonomics- Visual danger signals – General requirements design and testing	RM 20	
	MS ISO 11429:2010	Ergonomics – System of auditory & visual danger and information signals	RM 20	
G		User Centred Design Standards – for HCI and Usability		
	MS ISO 9241-20:2010	Ergonomics of human-system interaction - Part 20: Accessibility guidelines for information/communication technology (ICT) equipment and services	RM 50	
	MS ISO 14915-1:2007	Software ergonomics for multimedia user interfaces - Part 1: Design principles and framework	RM 160	
	MS ISO 14915-2:2007	Software ergonomics for multimedia user interfaces - Part 2: Multimedia	RM 270	
	MS ISO 14915-3:2007	Software ergonomics for multimedia user interfaces - Part 3, Media selection and combination	RM 310	
	MS ISO 16071:2007	Ergonomics of human system interaction - guidance on accessibility for human computer interfaces	RM 240	
H		Ergonomics of Human System Interaction – Displays		
	MS ISO 9241-300:2010	Ergonomics of Human System Interaction- Part 300: Introduction to electronic visual display requirements	RM 20	
	MS ISO 9241-302:2010	Part 302: Terminology for electronic visual displays	RM 90	
	MS ISO 9241-303:2011	Part 303: Requirements for electronic visual displays	RM 60	
	MS ISO 9241-304:2010	Part 304: User performance test methods for electronic visual displays	RM 30	
	MS ISO 9241-305:2010	Part 305: Optical laboratory test methods for electronic visual displays	RM190	
	MS ISO 9241-306:2010	Part 306: Field assessment methods for electronic visual displays	RM 60	
	MS ISO 9241-307:2010	Part 307: Analysis and compliance test methods for electronic visual displays	RM 230	
I		Software ergonomics for multi-media user interfaces		
	MS ISO 14915-1:2007	Software ergonomics for multimedia user interfaces Part 1: Design Principles & framework	RM 160	
	MS ISO 14915-2:2007	Software ergonomics for multimedia user interfaces Part 2: Multimedia navigation & control	RM270	
	MS ISO 14915-3:2007	Software ergonomics for multimedia user interfaces Part 3: Media selection and combination	RM 310	
	MS ISO 16071:2007	Ergonomics of human system interaction - guidance on accessibility for human computer interfaces	RM 240	

REGISTRATION

TERMS AND CONDITIONS

Registration and Fee Policy

Registration fee is **RM 150** inclusive of seminar materials, refreshments and certificate. Registration is on first-come first-served basis. Limited to **150 pax**.

Registration can be done online at:

<http://onlineregistration.sirim.my>

Alternatively, registrant may also submit nomination of participants by filling up the registration form via facsimile transmission or email to :-

Ms Zakiah Abdul Ghani (Tel: 03-5544 6125 / Fax: 03-5544 6114 / zakiiah@sirim.my)

Mr Ahmad Fuad Taquiuddin Saleh (Tel: 03-5544 6126 / Fax : 03-5544 6114/ afuad@sirim.my)

Full payment must be made before programme commence. Please send cheque/bank draft or postal order. All cheques should be crossed, marked A/C payee only and made payable to: **SIRIM Berhad**.

Confirmation of reservation will be sent via email. Walk-in delegates will only be admitted on the basis of seat availability at the seminar and with immediate full payment. Fee includes lunch, refreshments and seminar documentation. SIRIM Berhad reserves the right to make any amendment that is deemed to be in the interest of the seminar without any notice.

Cancellation and Replacements Policy

Any cancellation must be received in writing within 7 days working days prior to the event else full payment will be imposed. A substitute delegate is welcomed if substitution is received in writing before the programme. Any no show by registered delegates will be liable for full payment of the programme fees.

Disclaimer and Programme Changes Policy

SIRIM Berhad reserves the right to amend or cancel the programme due to circumstances beyond its control. In the event of such, SIRIM Berhad will provide an alternative arrangement to the delegates(s). Upon registration, you are deemed to have understood and agreed to the above terms and conditions.

Accommodation, Parking, Special Meal Arrangements and Others

For accommodation reservations, kindly book directly with the hotel nearby. For special meal requirements, SIRIM Berhad should be notified prior to the programme and is subject to availability.

Payment Methods

All payments are to be made payable to SIRIM Berhad either by cheque, Bank Draft or Cash Deposit. Payment via LO/PO is allowed for government bodies. Please mail payment with registration form to :

SIRIM Berhad
No. 1, Persiaran Dato' Menteri
Section 2, P.O. Box 7035
40700 Shah Alam, Selangor

Attn : Mr Ahmad Fuad Taquiuddin Saleh/ Ms Noor Rauna Hj. Ahmad Maher
Marketing and Sales Section, Technical Services Division
Block 1, Level 1

Payment via Cash/Cheque Deposit can be made payable to:

SIRIM Berhad

Account No : 1205-1307404-05-6

Bank : CIMB Bank Berhad

**SEMINAR ON
ERGONOMICS IS ECONOMICS**

5 SEPTEMBER 2013

FULLER HOTEL, ALOR STAR, KEDAH

Closing date : 30 August 2013

Email : zakiiah@sirim.my / afuad@sirim.my
Fax : 03-5544 6114

Contact Person : Organisation :

Company's Registration No : Email :

Address :

.....
**Please be informed that we will use this address to post your certificate. Please provide us a current postal address.*

Tel. No:

Fax No :

Date :

Signature :

Please indicate the nature of your business:

<input type="checkbox"/>	Academic	<input type="checkbox"/>	Construction industries	<input type="checkbox"/>	Oil and Gas Industries
<input type="checkbox"/>	Association/NGO	<input type="checkbox"/>	Government/Authority	<input type="checkbox"/>	Others (Please specify)
<input type="checkbox"/>	Banking and Financial	<input type="checkbox"/>	Hotels	<input type="checkbox"/>	
<input type="checkbox"/>	Commercial Industries	<input type="checkbox"/>	Manufacturing	<input type="checkbox"/>	

Please indicate whether you would like to purchase Malaysian Standards (MS) in hardcopy or softcopy (CD) form.

Please tick (✓) one.

<input type="checkbox"/>	Hardcopy of MS
<input type="checkbox"/>	Softcopy of MS (CD)

Mode of payment: Please tick (✓) one.

<input type="checkbox"/>	Enclosed cheque/bank draft no _____ for RM _____ payable to SIRIM Berhad.
<input type="checkbox"/>	Enclosed banked in slip for RM _____ payable to SIRIM Berhad (Bank: CIMB).
<input type="checkbox"/>	Cash/Cheque to be handed in on registration.

No	Participant	Tel. No	E-mail	Seminar Fee
1.				
2.				
3.				
4.				
5.				