

NIOSH UPDATES

Issue 08, Volume 12, 2019

MONITORING
CONFINED
SPACES FOR
ATMOSPHERIC
HAZARD

DANGER

TEST ATMOSPHERE
BEFORE ENTRY



MONITORING CONFINED SPACES FOR ATMOSPHERIC HAZARD

DANGER

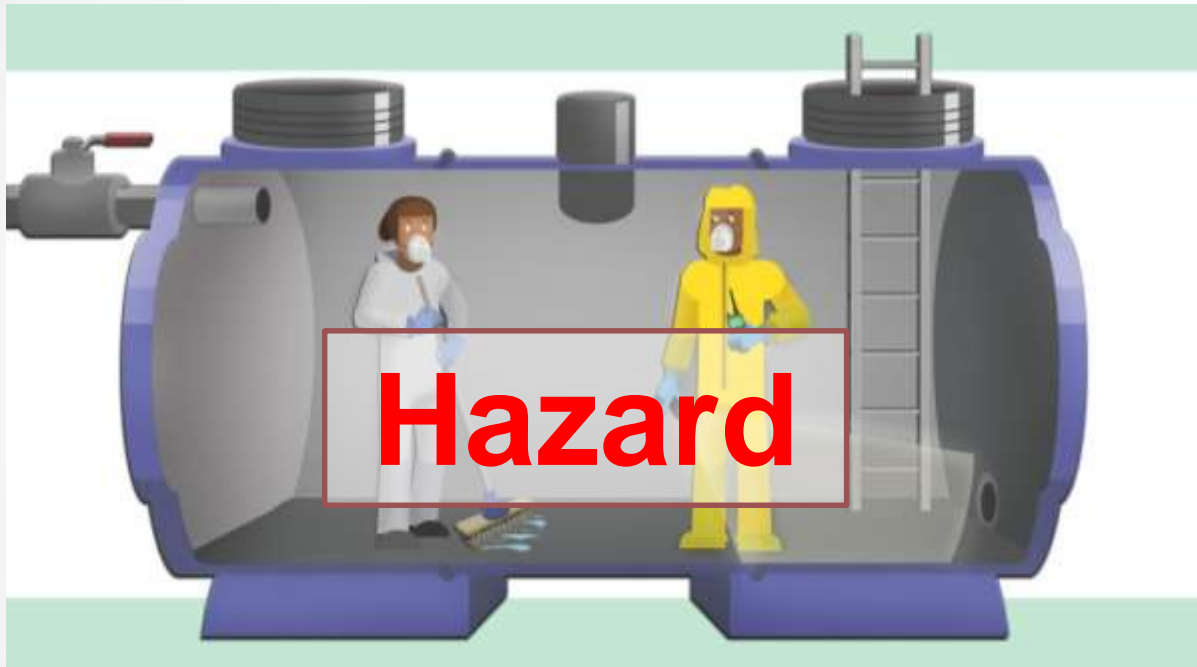
**TEST ATMOSPHERE
BEFORE ENTRY**



Atmosphere of earth

Composition	Quantity
Nitrogen	78.09 %
Oxygen	20.95 %
Carbon dioxide	0.03 %
Argon	0.933 %
Hydrogen	0.00005 %
Neon	0.0018 %
SO ₂	1 ppm
CH ₄	2 ppm
Nitrous Oxide N ₂ O ₄	0.02 ppm

Atmosphere in confined space



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N ₂ O ₄	

- What is O₂ Level?
- What are gases present in the air?

Confined Space – Hazardous Atmosphere

- atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue, injury or acute illness from one or more of the following causes;
 - a) Oxygen content is below 19.5% above 23.5% by volume (at sea level)
 - b) Accumulation of flammable or explosive gas greater than 10% of its LEL.
 - c) Accumulation of toxic gas equal to or exceeding its permissible exposure limit (PEL);
or
 - d) Any other atmospheric condition that is immediately dangerous to life or health (IDLH)

Confined Space – ICOP CS

- An enclosed or partially enclosed space that is at **atmospheric pressure** during occupancy and is not intended or designed primarily as a place of work, and
- Is liable at any time to –
 - have an **atmosphere which contains potentially harmful levels of contaminants;**
 - have an **oxygen deficiency or excess;** or
 - **cause engulfment; and**
- could have restricted means for entry and exit.

Atmospheric monitoring in confined space

Objectives of atmospheric monitoring

1. Evaluation of the hazards of the permit space ,and
2. Verification of acceptable conditions exist for entry into that space.

Evaluation testing

- The atmosphere within a confined space must be tested using equipment that is designed to detect the chemicals that may be present at levels that are well below the defined exposure limits.

Evaluation testing

1. Determine what chemical hazards are or may become present in the space's atmosphere.
2. Identify what steps must be followed and what conditions must be met to ensure that atmospheric conditions are safe for a worker

Verification testing

1. Verification testing is done to make sure that the chemical hazards that may be present are below the levels necessary for safe entry.
2. Meet the conditions identified on the permit. Test the atmosphere in the following order:
 - I. for oxygen,
 - II. for combustible gases, and
 - III. for toxic gases and vapors.

Procedure for atmospheric testing

1. Pre-entry test

- Recommend done remotely
- Sample priority-

① Oxygen;

- ✓ Ensure proper O₂ levels are present

② Flammable/combustible chemical; and

- ✓ Ensure that combustible gases are not present

③ Toxic chemical

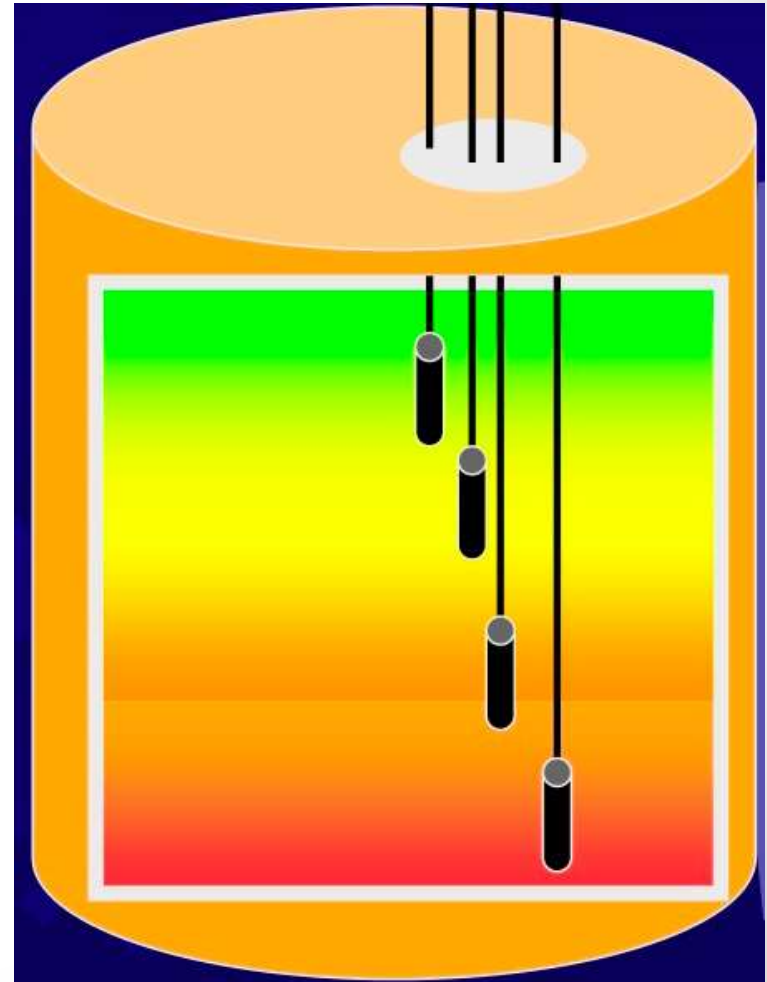
- ✓ Ensure that toxic gases are below PEL

Procedure for atmospheric testing

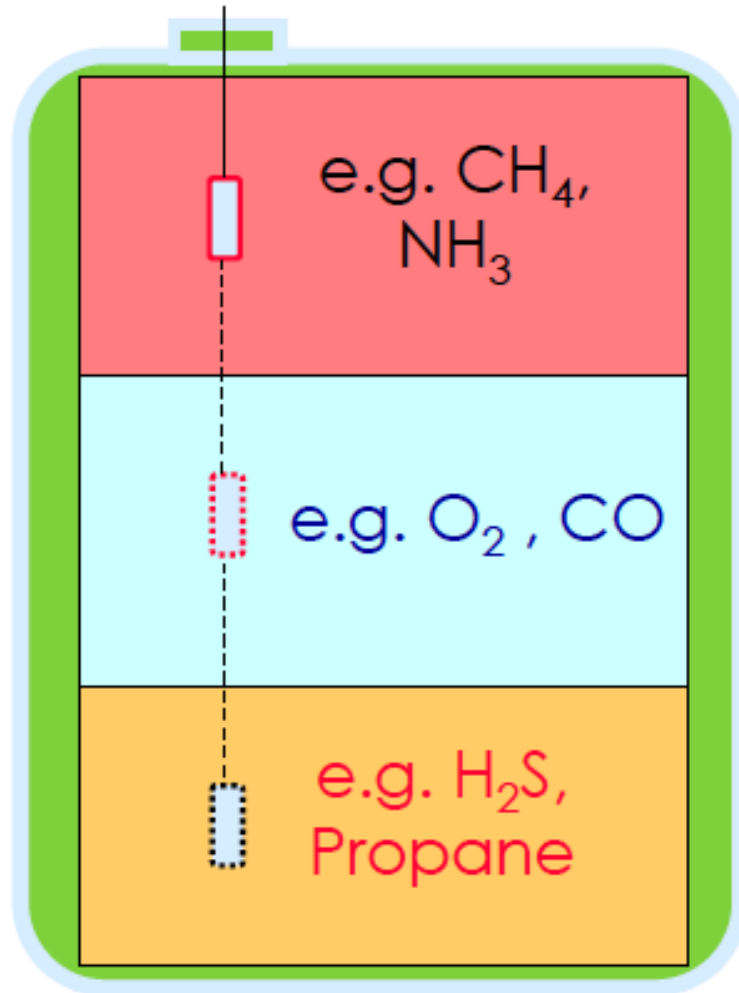
2. Sample in layers
 - Every 4 feet (1.22 meter) in the direction of travel
 - Different chemical stratify
3. Take samples at the top, middle, and bottom to locate varying concentrations of gases and vapors.
 - Highly concentrated gases can accumulate at the top or bottom of a confined space depending on whether they are less or more dense than air.
4. Retesting the space during entry or before re-entry

Chemical Stratification

- Chemical can stratify according to their vapor density
- Strata changes with environmental conditions
- Temperature
- Pressure



Test at various level



Duration of testing

- Allow enough time for the air from the space to be drawn into the equipment and for the sensor (or other detection device) to react to the chemical if it is present.
- “minimum response time” and it will be noted by the manufacturer in the operator’s manual. Be aware that you will need to add time to this “minimum response time” if you have attached hosing or a probe extension to the inlet. The additional time is needed to allow the air from the different depths of the space to be pulled into the equipment inlet.

Common mistakes in confined space monitoring

1. Not knowing standard and recommendations
2. Using your own senses
3. Disregarding important training
4. Not implementing a gas monitor maintenance program
5. Not knowing which toxic gas may be present
6. Not performing a pre-entry test
7. Considering the confined space safe after pre-entry testing
8. Not assigning an Standby Person.
9. Not having an emergency plan.

Occupational and Environmental Health: Recognizing and Preventing Disease and Injury

By :Barry S. Levy

Occupational and environmental health is the public health and multidisciplinary approach to the recognition, diagnosis, treatment, prevention, and control of disease, injuries, and other adverse health conditions resulting from hazardous environmental exposures in the workplace, the home, or the community. These are essential elements of public health practice and the core course in Environmental Health in Masters of Public Health programs.

Thoroughly updated and expanded upon, the sixth edition of *Occupational and Environmental Health* provides comprehensive coverage and a clear understanding of occupational and environmental health and its relationships to public health, environmental science, and governmental policy. New chapters include Toxicology, Risk Communication, Health Equity and Social Justice, Occupational and Environmental Health Surveillance, Food Safety, Protecting Disaster Rescue and Recovery Workers, Implementing Programs and Policies for a Healthy Workforce, and Addressing the Built Environment and Health. The authors also expand on chapters included in previous chapters, and the book features practical case studies, numerous tables, graphs, and photos, and annotated bibliographies.

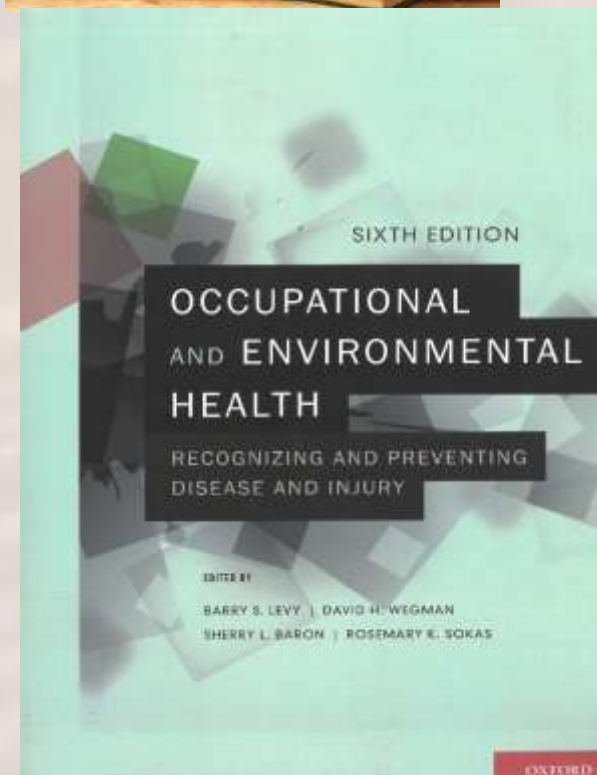
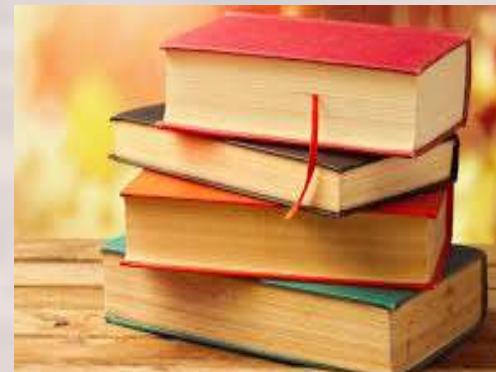
Reviews for previous editions:

"This text goes a long way in meeting the need for a brief overview of the entire field. The quality of writing is in general excellent, and this is a physically attractive book. Chapters are concise and to the point. The use of illustrative cases in many of the chapters is a definite plus. This an excellent book and a mainstay for introductory courses in the field."--*The American Journal of Industrial Medicine*

"It achieves a good blend of practical application, together with the elements of the supporting sciences, such as toxicology and epidemiology, as well the social context. It is a useful text to inform and support day-to-day practice, to educate students, and to help with examinations. If I had not received a reviewer's copy, i would have bought the book out of my own pocket."--*Occupational and Environmental Medicine*

"The book is geared primarily to medical personnel and professionals, but it contains many chapters that would be of use to nearly everyone. It is a delight to read."--*Journal of Community Health*

BOOK REVIEW



Occupational and Environmental Health: Recognizing and Preventing Disease and Injury

By :Barry S. Levy

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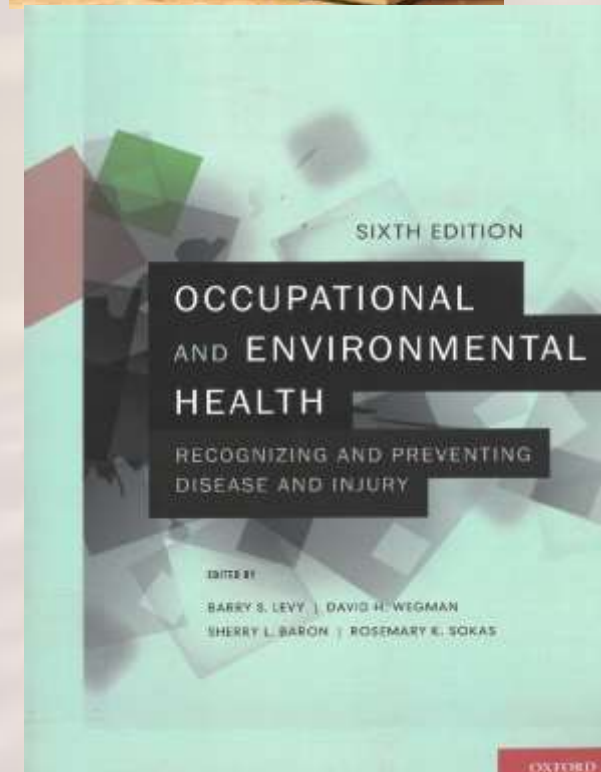
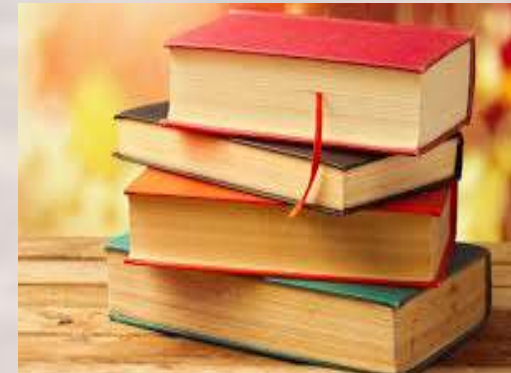
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BOOK REVIEW



Newspaper Cutting



Headline : Crane collapse kills man
Publication : New Straits Times
Date : 25 April 2019
Page : 14

CRUSHED TO DEATH *NYT 25/4/19 14*

Crane collapse kills man

SERI ISKANDAR: A 47-year-old man was killed when a crane he was operating collapsed on him at a housing project site in Taman Maju, Jalan Ipoh-Lumut here yesterday.

In the 12 noon incident, Lai Kim Choy was killed due to severe injuries to his body.

It is learnt that Lai was trying to jump out of his seat but failed to do so before the crane collapsed on him.

State Fire and Rescue Department spokesman said the department received a distress call at 12.25pm before a team of firemen was dispatched to the scene.

“Upon arrival, Lai was underneath the crane and the firemen tried to remove his body but failed as the crane was heavy. The developer provided another crane to remove the machine to enable the team to retrieve him,” he said.

He added that Lai’s body was handed over to police for post-mortem.



Headline : Pastikan pekerja cukup rehat elak kemalangan
Publication : Kosmo
Date : 16 April 2019
Page : 06

Pastikan pekerja cukup rehat elak kemalangan

KUALA LUMPUR - Majikan digesa memastikan pekerja mereka mempunyai rehat yang mencukupi sebelum atau selepas bekerja bagi menghindarkan kemalangan di tempat kerja, kata Timbalan Ketua Pengarah (Kesihatan Pekerjaan) Jabatan Keselamatan dan Kesihatan Pekerjaan, Ir. Saiful Azhar Mohd. Said.

Katanya, keadaan kelesuan boleh menyebabkan seseorang pekerja hilang tumpuan ketika menjalankan tugas termasuk dari segi kemahiran fizikal dan mental, keupayaan refleks, serta kehilangan pertimbangan untuk membuat keputusan yang akan menjurus kepada kemalangan.

"Sebab itulah pentingnya waktu rehat supaya pekerja berasa segar semula malah ada negara yang memperkenalkan *nap time* (meridap) untuk pekerja mereka.

"Pekerja juga tidak sepatutnya

bekerja terus-menerus untuk jangka masa panjang bagi mengelakkan kepenatan melampau," katanya selepas melancarkan program Kelesuan & Pengurusan Tidur di Institut Jantung Negara di sini semalam.

Beliau berkata, isu kelesuan dan ketiduran dipercayai merupakan antara penyumbang utama kepada berlakunya kemalangan di tempat kerja termasuk kecederaan dan kematian namun ia tidak pernah dilaporkan.

"Ekoran ketiadaan aduan membatik kelesuan dan ketiduran, banyak pihak tidak menyedari bahayanya isu kelesuan dan ketiduran kerana punca sebenarnya tidak ditekankan.

"Majikan pula mengutamakan produktiviti tetapi mengabaikan isu kelesuan pekerja mereka," katanya.

- Bernama

Kosmo
6
16/4/19

Newspaper Cutting

Headline : Bantu PKS capai prestasi kesihatan lebih tinggi
Publication : Utusan Malaysia
Date : 21 April 2019
Page : 63

Bantu PKS capai prestasi kesihatan lebih tinggi

KUALA LUMPUR

20 April - Syarikat-syarikat multinasional dan bersaiz besar harus memimpin dan memberi sokongan kepada perusahaan kecil dan sederhana (PKS) untuk mencapai prestasi kesihatan, keselamatan

dan alam sekitar (HSE) yang lebih tinggi, kata Pengerusi Institut Keselamatan dan Kesihatan Pekerjaan Negara (NIOSH), Tan Sri Lee Lam Thye.

Beliau berkata, pendekatan "mentor-mentee" tersebut amat berkesan kerana lebih daripada 90 peratus syarikat dalam industri kimia adalah PKS, manakala industri tersebut terus menjadi penyumbang utama eksport hasil pembuatan sebanyak 6.9 peratus tahun lepas.

"Walaupun bahan kimia penting dalam kehidupan seharian, penggunaan dan



LEE LAM THYE

pengendalian yang selamat dan bertanggungjawab adalah penting bagi memastikan persekitaran yang lebih selamat dan bersih untuk orang ramai.

"Sebagai pemain utama dalam keseluruhan rantaian,

syarikat-syarikat kimia mesti mengatur dan memainkan peranan dengan lebih berkesan untuk memastikan keselamatan tempat kerja, kesihatan pekerja dan masyarakat sekitar," katanya ketika merasmikan Majlis Makan Malam Industri Kimia 2019 malam tadi.

Dengan munculnya 'budaya korporat hijau', Lam Thye berkata, terdapat keperluan bagi syarikat untuk lebih memberi penekanan terhadap isu-isu alam sekitar dan menyedari bahawa mereka boleh menikmati lebih banyak manfaat dengan memelihara alam sekitar.

63
03
21/4/19

Newspaper Cutting

Headline : **Audit peralatan pastikan keselamatan JBPM**
Publication : Utusan Malaysia
Date : 19 April 2019
Page : 45

Audit peralatan pastikan keselamatan JBPM

Am 45
19/4/19

KUALA LUMPUR 18 April - Proses audit secara menyeluruh perlu dilakukan terhadap aset Jabatan Bomba dan Penyelamat Malaysia (JBPM) bagi memastikan semua peralatan dalam keadaan selamat.

Pengerusi Institut Keselamatan dan Kesihatan Pekerjaan Negara (NIOSH), Tan Sri Lee Lam Thye berkata, proses tersebut juga dapat mengenal pasti sebarang unsur penyalahgunaan kuasa atau penyelewengan membabitkan proses

perolehan aset-aset JPBM.

Katanya, jika terdapat penyelewengan, tindakan tegas perlu diambil terhadap mereka yang terbabit manakala aspek perolehan peralatan dan jentera bomba perlu diperkemas bagi mengelak kes yang sama berulang serta meningkatkan integriti di semua per-



LEE LAM THYE

ingkat. "Pendedahan 97 jentera bomba yang tersadai membuka mata banyak pihak. Amat menyedihkan apabila dilaporkan baju kalis api yang turut digunakan pegawai dan anggota bomba seluruh negara kini berusia antara lima hingga 10 tahun. "Selain menggunakan baju

kalis api yang 'nazak', antara 30 peratus hingga 40 peratus anggota bomba dilapor berkongsi baju kalis api itu dengan rakan mereka," katanya dalam satu kenyataan di sini hari

Beliau mengulas mengenai 97 jentera bomba berharga RM165 juta didakwa tersadai di seluruh negara di percayai berpunca daripada kegagalan pembekal menyediakan reka bentuk dan pemasangan peralatan mengikut spesifikasi sepatutnya.

Newspaper Cutting

Headline : Pinda akta hukum kontraktor cuai
Publication : Harian Metro
Date : 24 April 2019
Page : 36

Kuala Lumpur: Kementerian Sumber Manusia akan meminda Akta Kesihatan dan Keselamatan Pekerjaan (AKKP) 1994 supaya hukuman lebih berat dikenakan ke atas kontraktor mengabaikan aspek keselamatan dan kesihatan pekerja hingga membawa kepada kemalangan maut di tapak binaan.

Timbalan menterinya Datuk Mahfuz Omar berkata, akta baru ini akan dibentangkan di Parlimen selepas lewat-lewatnya Julai ini.

Beliau berkata, kerajaan memandang serius kes kemalangan maut melibatkan pekerja di tapak binaan.

"Syarikat pemaju dan kontraktor jangan hanya memi-



Pinda akta hukum kontraktor cuai

kirkan keuntungan semata-mata hingga mengabaikan aspek keselamatan dan kesihatan pekerja di tapak binaan.

"Akta sedia ada memperuntukkan hukuman denda maksimum RM50,000 kepada mereka dinaikkan lebih tinggi selepas akta baru dikuat kuasa.

"Kementerian melalui Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP) sentiasa menekankan kepada penggiat industri untuk mengamalkan budaya pengurusan keselamatan

yang baik kerana ia

penting untuk pencegahan kemalangan sektor pembinaan," katanya.

Beliau berkata demikian pada sidang media selepas merasmikan Persidangan Tahunan Keselamatan dan Kesihatan Persatuan Kontraktor Binaan Malaysia (MBAM), di sini, semalam.

Turut hadir, Presiden MBAM Foo Chek Lee.

Mahfuz berkata, JKKP yang menjalankan operasi tapak pembinaan di seluruh negara selama sebulan bermula 25 Februari lalu memberi fokus kepada aktiviti yang berisiko tinggi seperti kerja tempat tinggi, kerja konkrit dan pematuhan kehendak perundangan.

Headline : Perketat keselamatan sekolah tahfiz
Publication : Utusan Malaysia
Date : 25 April 2019
Page : 19

Perketatkan keselamatan sekolah tahfiz



PENDEDAHAN kebajikan mengenai bahaya kebakaran di pusat tahfiz sekolah lagi menanjakkan. Sebagai masyarakat kita masih mengabdikan badan kita dalam menanganai isu berkaitan keselamatan di mana kita hanya akan bertindak selepas berlaku tragedi.

Walaupun telah banyak kes kebakaran dilaporkan berlaku sebelum ini, Jabatan Bomba dan Penyelamat Malaysia (JBPM) mendapati sebanyak 495 buah di pusat tahfiz yang dipertika di seluruh negara berdepan risiko kebakaran, sekiranya berlaku kebakaran kepada penghuninya.

Amat memprihatinkan apabila dilaporkan isu utama membabitkan 495 pusat tahfiz berkaitan adalah berhubung keselamatan di asrama, kejadian pintu kecemasan serta laluan penyelamatan diri sekiranya berlaku kebakaran. Sebelum ini kita diketikikan dengan pendedahan pihak JBPM bahawa 140 daripada 649 bangunan milik kerajaan di seluruh negara masih tidak mempunyai Sili Penyelamatan Diri (PC) seperti yang diperuntukkan dalam undang-undang.

Walaupun sekolah tahfiz secara spesifik tidak termasuk dalam senarai seperti itu mendepan PC, asrama dan domitorinya adalah di antara senarai premis yang tertarik di bawah Akta Pertahanan Bomba 2004.

Kita tidak seharusnya melupakan kebakaran di Pusat Tahfiz Darul Quran at-Taqwa di Jalan Doris Kezang pada 4 September 2017. Insiden insiden yang berlaku pada pukul 5.15 pagi itu, 31 pelajar dan dua guru terbunuh apabila mereka terperangkap di tingkat tiga asrama yang bertekak.

Kejadian itu juga bukannya yang pertama mengigit nyawa di sekolah agama kerana pada 22 September 1980, Sekolah Agama Rakyat Thaqif Al-Khannah Al-Haramiah atau lebih dikenali sebagai "Pendok Pak Ya" di Kempong Padang Lempit, Pahang turut berlaku.

Saramai 27 pelajar



LEE LAM THYE (dua dari kanan) berucap media dengan peserta Seminar NIOSH for Tahfiz 2019 di NIOSH, Serapi, Selangor, dua tahun lalu. - UTUSAN

persempitan tertumbuh dalam kebakaran yang memusnahkan lapan asrama di sekolah tersebut.

Malangnya, cadangan dibarekkan suatuhajap Sastran Diraja (SD) yang dibentangkan untuk menyuarakan kekesalan di Pendok Pak Ya tidak pernah dilaksanakan.

Namun syon arsan berbeza hari apabila semakin banyak insidus kebakaran turut besama-sama memporak langkai ke hadapan dan membabitkan mereka mampu menjadi pemimpin dalam pelbagai bidang termasuk berkaitan aspek keselamatan dan kesihatan pekerjaan (KKP).

Pihak pengurusan dan pentadbir sekolah-sekolah agama seluasnya bertindak secara proaktif dengan menetapkan standard yang tinggi bagi menjamin aspek keselamatan dan kesihatan di premis masing-masing.

Mereka telah menjadikan buka paruhan KKP untuk sekolah tahfiz yang disediakan oleh NIOSH awal tahun lepas sebagai rujukan utama untuk mengukuhkan tahap keselamatan dan keselamatan di premis masing-masing.

Buku Paruhajap KKP untuk Sekolah Tahfiz ini amat mudah untuk difahami dan boleh dilaksanakan dengan baik di semua sekolah tahfiz seluruh negara.

Di samping itu, buku paruhajap ini dapat memperkatakan dan mengukuhkan pelaksanaan pendakian risiko dan kawalan risiko (HIRARC) serta prosedur operasi kerja (SOP) bagi setiap aktiviti yang dijalankan di sekolah.

Pada masa sama, usaha bersepadu perlu dilaksanakan

untuk memulau semua sekolah tahfiz swasta yang dipertikai melebihi 800 buah dengan hampir 50,000 pelajar dan 5,000 guru.

NIOSH yang turut mengaham pesakit khayati untuk melawat sekolah-sekolah tahfiz bagi mengesahkan masalah dihadapi mendapatkan bantua dalu sesetengah peserta teramat telah kuantanya keselamatan serta dinas tidak muncak.

Antaranya, keadaan kabel elektrik yang terdedah dan kedudukannya menentang aliran sura pengesahan ingkuan nyamuk yang tidak dilatir dalam bekas yang surai. Terdapat juga pintu kecemasan dihalang dengan pelbagai objek manakala pentrafom sura pula tidak disingkirkan atau diampun jauh dari bangunan sekolah dan asrama.

Justeru, semua pihak perlu memantu dari segi kesetaraan, kepakaran dan tenaga kerja bagi meningkatkan tahap keselamatan di sekolah-sekolah tahfiz ini agar insiden menyayat hati tidak berbangkit di institusi agama lagi.

Semua pihak perlu alor baliuzat pematuhan terhadap OSHA 1994, pengukuasaan berhasrat oleh agensi berhabat serta inisiatif latihan KKP oleh NIOSH tidak akan berjaya tanpa sokongan setiap lapisan masyarakat demi memperkaji isu keselamatan dan kebakaran di sekolah-sekolah tahfiz.

TAN SIBU LEE LAM THYE (dkt) Perurus Insidus Keselamatan dan Kesihatan Pekerjaan (NIOSH)

Newspaper Cutting

Headline : Ajal 2 sahabat
Publication : Harian Metro
Date : 26 April 2019
Page : 45



DUA remaja maut digilis treler selepas motosikal terbabit kemalangan di Jalan Pelabuhan Barat.

■ Mangsa sempat bersalaman dengan bapa meninggal digilis treler ketika keluar bekerja

Iskandar Shah Mohamed
am@hmetro.com.my

Klang

“D ia (arwah) biasanya pergi bekerja dengan menunggang motosikal. Namun dia meminta bantuan seorang rakan menjemputnya di rumah berikutan tayar hadapan motosikal pancit.

“Tidak sangka mereka berdua pergi bersama meninggalkan kami buat selama-lamanya,” kata Zaimuddin Abdul Samad, 60, bapa kepada seorang remaja lelaki yang maut sejurus terbabit kemalangan di Jalan Pelabuhan Barat, Pelabuhan Klang di sini.

Dalam kejadian jam 6 petang kelmarin, mangsa, Amirul Naim dan Muham-

mad Daniël Imran masing masing berusia 18 tahun maut digilis treler.

Mangsa yang menunggang motosikal Honda Eash 125 dikatakan bergesel dengan sebuah kenderaan menyebabkan mereka terjatuh di atas jalan raya.

Amirul Naim kemudian digilis sebuah treler dan maut di tempat kejadian akibat parah di kepala, manakala Muhammad Daniël iaitu penunggang motosikal disahkan meninggal dunia sejurus tiba di Hospital Tengku Ampuan Rahimah (HTAR) di sini.

Zaimuddin berkata, sebelum kejadian anak bongsu daripada enam beradik itu

sempat bersalaman dan memaklumkan mahu keluar pergi bekerja jam 8 pagi.

“Dia yang bekerja sebagai operator pengeluaran memaklumkan tayar motosikal Honda Wave miliknya pancit dan akan pergi bersama rakannya.

“Namun, pada jam 6.40 petang, saya terkejut apabila dimaklumkan mengenai kemalangan itu oleh anak saudara dan bergegas ke lokasi kejadian bagi mendapatkan kepastian,” katanya.

Sementara itu, Ketua Polis Daerah Klang Selatani Asisten Komisioner Shamsul Amar Ramli berkata, siasatan mendapati dua remaja itu datang dari Pulau Indah menuju ke Pelabuhan Klang.

FAKTA
Mangsa minta bantuan rakan menjemputnya di rumah berikutan tayar hadapan motosikal pancit

Newspaper Cutting

Headline : 'Collaborate to boost occupational safety awareness'
Publication : New Straits Times
Date : 29 April 2019
Page : 10

YOUNG WORKERS

'Collaborate to boost occupational safety awareness'

SHAH ALAM: Strong collaboration between the National Institute of Occupational Safety and Health (Niosh) and higher learning institutions can help promote and "communitise" good health and occupational safety (OSH) practices.

Niosh chairman Tan Sri Lee Lam Thye said the collaboration between the two parties would enable them to create awareness of the importance of OSH among the people and make it a culture.

"It is in line with the theme of the World Day for Safety and Health at Work 2019 — A Safe and Healthy Future of Work — where we need to focus on improving safety and health for young workers," he said at the International Occupational Safety Half Marathon (IOS Half Marathon) at the main campus of Universiti Teknologi Mara (UiTM) here yesterday.

The run was organised by the UiTM Faculty of Chemical Engineering in collaboration with NIOSH.

Present were UiTM deputy vice-chancellor (development) Associate Professor Dr Mohd Fozil Ali, Dean of Faculty of

Chemical Engineering Professor Dr Norazah Abd Rahman and Niosh executive secretary Hanif Maidin.

Lee said the International Labour Organisation (ILO) was also committed to ensuring a safe working environment for all employees by 2030 and to end all forms of child labour by 2025.

"According to ILO, some 541 million young workers aged between 15 and 24 account for more than 15 per cent of the world's labour force and suffer up to a 40 per cent higher rate of non-fatal occupational injuries than adult workers."

He said the IOS Half Marathon was held in conjunction with the World Day for Safety and Health at Work, or better known as "World OSH Day".

It is celebrated annually on April 28 worldwide since 2003.

"It was initially organised to commemorate the victims of occupational accidents or those who suffered from workplace illnesses. ILO later changed its aim, which is to promote the prevention of occupational accidents and diseases," said Lee.

Headline : Chemical firms urged to adopt green corporate culture
Publication : New Straits Times
Date : 21 April 2019
Page : 08

Headline : Kerjasama NIOSH, IPT terap amalan KKP
Publication : Berita Harian
Date : 29 April 2019
Page : 64

SAFER ENVIRONMENT

Chemical firms urged to adopt green corporate culture

KUALA LUMPUR: Proper disposal of chemical waste or residual material is the way forward for players in the chemical industry to ensure a safer workplace and the surrounding environment.

The "green corporate culture" must be adopted and prioritised to prevent a repeat of the Sungai Kim Kim incident in Johor recently, said National Occupational Safety and Health Institute chairman Tan Sri Lee Lam Thye.

He said managing hazardous waste might be costly for small- and medium-sized enterprises (SMEs), therefore, multinational and big chemical companies should lead the way and lend support to achieve a higher level of health, safety and environment performance through awareness initiatives.

He said the mentor-mentee approach was relevant since more than 90 per cent of players in the local chemical industry were SMEs.

"The industry continues to be a major contributor to manufactured goods exports, at 6.9 per cent last year. Although its contribution remained significant, the task of managing, handling and disposing of chemicals was equally important in ensuring a safer and cleaner environment.

"Chemical companies must self-regulate and play a role in ensuring a safer workplace and surroundings," said Lee at the Chemical Industry Dinner 2019,

organised by the Chemical Industries Council of Malaysia (CICM) here on Friday.

He said the Sungai Kim Kim incident, which affected thousands of people, was proof that if the industry did not make peace with the environment, destruction would be greater in the future.

"With the advent of the 'green corporate culture', there is a need for businesses to be more conscious about environmental issues."



Tan Sri Lee Lam Thye

Lauding CICM's efforts in making the chemical industry safer, Lee said such initiatives augured well for the country's image.

"A good safety track record will contribute to the productivity of businesses, making the chemical industry more responsible and sustainable."

Lee said Malaysia had adopted the international Responsible Care initiative for the chemical industry since 1994.

"Responsible Care is an ethic and commitment by the chemical industry to build confidence and trust in the global chemical industry."

Present at the 14th CICM annual awards and dinner was CICM chairman Datuk Dr Abd Hapiz Abdullah, who, jointly with Lee, presented the CICM Responsible Care Award 2017/2018 to the grand award winner — IOI Pan-Century Olechemicals Sdn Bhd — for its commitment and best practices in the industry.

Kerjasama NIOSH, IPT terap amalan KKP

Kuala Lumpur: Kerjasama antara Institut Keselamatan dan Kesihatan Pekerjaan Negara (NIOSH) dengan institusi pengajian tinggi (IPT) adalah penting dalam usaha memasyarakatkan amalan keselamatan dan kesihatan pekerjaan (KKP) yang baik.

Pengerusi NIOSH, Tan Sri Lee Lam Thye, berkata kerjasama itu akan membolehkan kesedaran diberi kepada seluruh rakyat supaya memahami kepentingan KKP, sekali gus menjadikannya budaya hidup mereka.

"Ia bersesuaian tema sambutan Hari Sedunia bagi Keselamatan dan Kesihatan di Tempat Kerja tahun ini, iaitu 'Keselamatan dan Kesihatan Pekerjaan Pada Masa Depan', di mana kita perlu memberi tumpuan kepada usaha meningkatkan keselamatan dan kesihatan dalam kalangan pekerja muda atau belia," katanya.

Beliau berkata demikian pada program International Occupational Safety (IOS) Half Marathon anjuran Fakulti Kejuruteraan Kimia, Universiti Teknologi MARA (UiTM), dengan kerjasama NIOSH di kampus UiTM Shah Alam, semalam.

Jamin persekitaran kerja selamat

Lam Thye memaklumkan Pertubuhan Buruh Antarabangsa (ILO) juga berazam menjamin persekitaran kerja selamat untuk semua pekerja menjelang 2030 dan menamatkan semua bentuk buruh kanak-kanak pada 2025.

"Menurut ILO, 541 juta pekerja muda berumur 15 hingga 24 tahun menyumbang lebih 15 peratus tenaga buruh dunia. Malangnya, mereka mencatat hingga 40 peratus lebih tinggi kecederaan yang tidak menyebabkan kematian berbanding pekerja dewasa," katanya.

Newspaper Cutting

Headline	: Get green, chemicals industry told
Publication	: StarMetro
Date	: 24 April 2019
Page	: 05

Get green, chemicals industry told

By SHALINI RAVINDRAN
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MORE businesses in the chemical industry need to be aware of environmental issues and they should adopt a "green corporate culture," says National Institute of Occupational Safety and Health (NIOSH) chairman Tan Sri Lee Lam Thye.

He said this was needed to avoid future incidents like the Sungai Kim Kim toxic waste dumping incident.

"The tragedy has shown that if the industry did not make peace with the environment, the destruction will be all the greater in the future," he said when opening the Chemical Industry Dinner 2019 organised by Chemical Industries Council of Malaysia (CICM).

Lee said multinational and large local companies should lead the way in lending support to small and medium enterprises (SMEs) to achieve a higher level of health, safety and environment performance.

He noted the mentor-mentee approach was effective since more than 90% of the companies in the chemical industry are SMEs and the industry continued to be a major contributor of manufactured exports at 6.9% in 2018.

"The safe and responsible use, handling and disposal of chemicals are important to ensure a clean and safer environment for the public.

"As the main players in the whole value chain, chemical companies must self-regulate and play their role in ensuring safety at the workplace as well as the health of their employees and surrounding public," he added.

With the advent of the green corporate culture, Lee said there

NIOSH chairman says businesses benefit more from being eco-conscious and preserving environment



About 20 companies in the petrochemicals, oleochemicals and general chemicals sub-sectors getting recognition for their roles in promoting the Responsible Care's Six Codes of Management Practices in their organisations.

was a need for businesses to be more conscious of environmental issues and realise there was more to gain by preserving the environment.

Lauding CICM's effort in making the chemical industry a safer one, he said such an initiative augured well for Malaysia's image.

"A good safety track record will not only ensure continuous operations but will also contribute to productivity, thus making the Malaysian chemical industry a more responsible and sustainable one," he elaborated.

Globally, he said there was already the Responsible Care initiative by the chemical industry,

which had been adopted by Malaysia since 1994.

"Led by CICM as its sole custodian, local chemical companies have pledged their commitment to the Guiding Principles and implement the Codes of Management Practices, which goes beyond legislative and regulatory compliance," he said.

Responsible Care is a set of ethics and a commitment by the chemical industry that builds confidence and trust in the global chemical industry.

Lee said the chemical industry played a vital role as a supplier of raw materials and served as a building block for the manufactur-

ing of end-user goods and other economic sectors such as agriculture and construction.

It also provides opportunities for supporting services to the chemical industry to flourish, such as logistics, transportation, distribution and warehousing.

Lee said it was reported that the approved investments in chemicals as well as chemical and petroleum products amounted to RM20.8bil in year 2017 and RM37.9bil in 2018.

During the launch event, 20 companies in the petrochemicals, oleochemicals and general chemicals sub-sectors were given recognition for their roles in promoting the Responsible Care's Six Codes of

Management Practices in their organisations.

The awards were presented by Lee and CICM chairman Datuk Dr Abd Hapiz Abdullah.

IOI Pan-Century Oleochemicals Sdn Bhd won the inaugural Grand Award in recognition for their outstanding performance in CICM Responsible Care Awards 2017/2018. The company won four Gold and two Silver awards.

The company's chief operating officer Gurdev Singh was also announced as the winner of the Leadership Award 2017/2018 in recognition of his achievements and contributions to Responsible Care beyond his own organisation.

Newspaper Cutting

Headline	: Behaviour matters in the workplace
Publication	: The Star
Date	: 19 April 2019
Page	: 20

Behaviour matters in the workplace

THE construction industry is known to be the catalyst for economic growth and development. To ensure that it can be developed progressively and successfully, we not only need a professional and skilful workforce but also workers with adequate exposure and competency in all aspects of safety and health at the workplace.

Those working in the construction industry should realise the dire consequences of flouting safety guidelines and cutting corners: poor design, shoddy workmanship and inadequate supervision.

Behaviour Based Safety (BBS) is an approach that can be applied successfully in the construction industry as it has the advantage of ensuring the involvement of individual employees in addition to employer commitment.

Accidents caused by poor safety management of construction sites are serious and must be addressed urgently. Those responsible must learn from past accidents and be prepared to avoid similar mishaps in future. Accidents such as collapse of building scaffolding at construction sites or falling objects, resulting in death or injuries to the workers and the public, are matters which must be taken seriously.

BBS addresses these factors and reinforces learning and behaviours. It is closely linked to company culture and values and, most importantly, when it works, it is an excellent tool to improve safety performance at the workplace.

Reports of falling cranes at construction sites resulting in the damage of residential homes and public property are also matters of serious public concern.

Construction activities carried out without regard to the environment have also resulted in environmental mishaps such as flooding and landslides.

Such accidents could affect the image of the company, delay the construction progress, as well as generate substantial direct and indirect cost burdens. In some cases, workers could be injured and this would demotivate and demoralise them.

The key findings of most accident investigations highlight the need to review and enhance awareness and competency of the parties involved, particularly their roles and responsibilities in developing best practices in workplace safety.

It is therefore essential for all those involved in the construction industry to be always sensitive to such problems and take the necessary measures to prevent accidents. Those in positions of authority must pay heed to the more stringent standards in



occupational safety and health.

Laws and regulations alone do not automatically ensure successful health and safety practices at construction sites. What is needed is the adoption and implementation of safety measures by responsible and safety-conscious contractors supported by experienced and trained employees.

To avoid mishaps at the work site, attention and priority must be given to safety right from the conception of the project.

Occupational Safety and Health (OSH) management must be practised at all levels in the construction industry, from the top management to the labourer at the work site. It is of paramount importance for everyone to be committed and involved in the practice of OSH.

Although the authorities enact laws and enforce them, the responsibility for implementing a safety system at the construction site lies mainly with the main and sub-contractors. Those who create the risk and hazards are in a better position to manage them. Contractors should therefore be responsible to ensure that the workplace is safe and healthy.

Industries and employers must under-

stand the four fundamental factors that justify OSH management. These are corporate responsibility, social and moral obligation, good business sense and legal obligation.

BBS is a process that provides organisations the opportunity to achieve safety excellence through actionable leading indicators that are statistically valid, reliable and can lead to improved indicators of safety leadership, trust, empowerment and unity across the team.

Equally important to the organisational culture is that BBS provides line management the opportunity to prove and demonstrate a strong commitment to the core values of their organisation. When used together with the Company Integrated Safety Management System, BBS could significantly impact injury rates and total reportable cases.

Employers must be committed to and understand the issues of occupational safety and health as it is part of their company's corporate responsibility. This success cannot be achieved without cooperation and understanding between the employers and workers.

It should be noted that occupational safety

and health neither discriminates genders nor appearance or citizenship. Local and foreign workers are entitled to the same rights.

Accidents neither distinguish between victims nor the value of the project. It is the people who can recognise the hazards and are able to take preventive action.

Most employers and employees will agree that the ultimate aim of a safety initiative is a "total safety culture", but this concept is rarely defined.

A total safety culture is a culture in which:

1. Individuals hold safety as a "value" and not a priority, as our priorities change on an hourly basis.

2. Individuals take responsibility for the safety of their co-workers in addition to themselves; and

3. All levels of employees are willing and able to act on their sense of responsibility and know they should go beyond the call of duty in this aspect.

The following are some requirements for any approach to safety at work to bring about noticeable, lasting results and total safety culture through the BBS approach:

- i. A strong management commitment towards maintaining and improving behavioural safety, witnessed in the regular acts of individuals at management level;

- ii. Respectful, trusting, open communication between management and employee groups about all aspects of safety at the workplace;

- iii. An open feedback culture among employees that enables them to consistently learn and grow;

- iv. Commitment to improving the profile of and attitude to health and safety and increased employee engagement in safety;

- v. Emphasis on safe and unsafe behaviour, and not solely depending on lagging indicators such as safety statistics;

- vi. Strong, consistent, timely reaction upon the discovery of unsafe acts whether they result in injury or not. Safety incidents are viewed as an opportunity to learn and improve; and

- vii. Generally transparent and fair leadership from all, including managers, supervisors and owners.

BBS thus promotes awareness among all workers of the different approaches to consider in working towards an accident-free environment.

TAN SRI LEE LAM THYE
Chairman
National Institute of Occupational Safety and Health (NIOSH) Malaysia

Newspaper Cutting



Headline	: Niosh: Have yearly audit for old high-rise buildings
Publication	: New Straits Times
Date	: 30 April 2019
Page	: 04



National Institute of Occupational Safety and Health president Tan Sri Lee Lam Thye (fourth from left) launching an occupational health and safety campaign at the Pembinaan Mitrajaya project site in Putrajaya yesterday. With him is Malaysian Occupational Safety and Health Practitioners' Association president Datuk Dr Kanagaraja Raman (second from right). PIC BY AHMAD IRHAM MOHD NOOR

NST 4 20/4/19

Niosh: Have yearly audit for old high-rise buildings

PUTRAJAYA: The government has been urged to conduct yearly audit for old high-rise accommodation to ensure the safety of their tenants.

National Institute of Occupational Safety and Health (Niosh) chairman Tan Sri Lee Lam Thye said the audit should be applied to old office buildings to identify possible risks.

He said conducting inspection on old buildings would ensure that any problem, weaknesses and risks would be identified fast so that repairs could be carried out.

"Safety concerns are something that we can't put off and ignore. (It) requires the government to give priority to safety to protect the people (who work or reside in old buildings)," said Lee at an occupational health and safety campaign held at the Pembinaan Mitrajaya project site here in Presint 5.

Present were Malaysian Occupational Safety and Health Practitioners' Association president Datuk Dr Kanagaraja Raman and Pembinaan Mitrajaya project director Andy See Wee Wah.

Lee said this in reference to

Housing and Local Government Minister Zuraida Kamaruddin's statement that the government was empowered to repair and rebuild flats 30 years and above under the National Housing Policy.

She said this following evacuation of 118 Taman Keramat Permai flat Block F residents due to large cracks that appeared on the building on Friday.

Lee lauded Pembinaan Mitrajaya for promoting occupational safety and health, especially at its work sites, urging other stakeholders to do the same.

Newspaper Cutting



Headline : Kerajaan digesa wajib pemeriksaan setiap 10 tahun
Publication : Berita Harian
Date : 30 April 2019
Page : 02

Kerajaan digesa wajib pemeriksaan setiap 10 tahun



Sudah tiba masa Akta 133 diguna pakai dengan menyeluruh kerana pemeriksaan terhadap bangunan bertingkat perlu dilakukan secara berkala bagi menjamin keselamatannya"

Iznî Syahrizal Ibrahim,
Pegawai Pusat Kejuruteraan
Forensik UTM

Kuala Lumpur: Kerajaan digesa menguatkuasakan sepenuhnya Seksyen 85A Akta Jalan, Parit dan Bangunan 1974 (Akta 133) yang mewajibkan pemeriksaan bangunan bertingkat dilakukan setiap 10 tahun.

Pegawai Pusat Kejuruteraan Forensik, Universiti Teknologi Malaysia (UTM), Prof Madya Dr Iznî Syahrizal Ibrahim, berkata: penguatkuasaan akta terbabit berupaya membendung kejadian tidak diingini terhadap bangunan.

"Sudah tiba masa Akta 133 diguna pakai dengan menyeluruh kerana pemeriksaan terhadap bangunan bertingkat perlu dilakukan secara berkala bagi menjamin keselamatannya. Berdasarkan akta ini, pihak berkuasa tempatan (PBT) boleh mengeluarkan notis bertulis kepada pemilik bangunan bagi tujuan pemeriksaan oleh jurutera profesional," katanya.

Iznî Syahrizal berkata, jika pemilik bangunan gagal melakukan pemeriksaan berdasarkan akta itu, PBT boleh melantik seorang jurutera melakukan tugas terbabit, namun perbelanjaan ditanggung sepenuhnya oleh pemilik premis.

"Pemeriksaan berkala ini pen-

ting kerana kita tidak tahu apa akan berlaku pada sesebuah bangunan. Jika pemeriksaan dilakukan mengikut Akta 133, sudah pasti apa sahaja bentuk perubahan pada bangunan dapat dikesan dengan lebih awal," katanya ketika dihubungi BH, semalam.

Bergantung lokasi premis

Pensyarah Pusat Sains Seitaran dan Sumber Alam, Fakulti Sains dan Teknologi Universiti Kebangsaan Malaysia (UKM), Prof Madya Dr Tajul Anuar Jamaludin pula berkata, sebarang binaan di kawasan cerun, berisiko mengalami mendapan atau kerosakan struktur jika wujud pergerakan tanah, terutama pada musim hujan.

"Secara umumnya, semua bergantung pada lokasi premis. Jika dibina di cerun hasil tambakan tanah, memang boleh berlaku pergerakan tanah jika tambakan itu tidak cukup kuat. Begitu juga kawasan cerun, jika tidak diselenggara kawasan itu dengan baik, apa-apa binaan atau struktur yang dibina di atasnya boleh terjejas.

"Di mana-mana sahaja boleh berlaku, bergantung kepada kekuatan tanah atau asasnya. Jika di

kawasan berbukit, tentu sahaja ada risiko, namun bagi kawasan yang landai, mendapan tanah mungkin boleh berlaku jika di bawah kawasan itu ada air yang boleh menyebabkan struktur tanah menjadi lembut," katanya.

Audit keselamatan tahunan

Di Putrajaya, Pengerusi Institut Keselamatan dan Kesihatan Pekerjaan Negara (NIOSH), Tan Sri Lee Lam Thye, meminta kerajaan melaksanakan audit keselamatan secara tahunan ke atas semua bangunan kediaman dan komersial, khususnya yang berusia lebih 20 tahun bagi menjaga keselamatan penghuni.

"Langkah itu penting bagi mengenal pasti risiko dan membolehkan tindakan segera diambil," katanya yang ditemui media selepas Kempen Keselamatan dan Kesihatan di Tempat Kerja, Projek Pembinaan Mitrajaya Sdn Bhd di Presint 5, semalam.

Lam Thye berkata, isu keselamatan tidak boleh diabaikan dan kerajaan perlu memastikan aspek keselamatan diberi keutamaan untuk melindungi penduduk dan orang ramai.



Kerajaan diminta melaksanakan audit keselamatan secara tahunan ke atas semua bangunan kediaman dan komersial, khususnya yang berusia lebih 20 tahun bagi menjaga keselamatan penghuni"

Lee Lam Thye,
Pengerusi NIOSH

NewsPaper Cutting

Headline : 'Wajibkan audit keselamatan bangunan lama
Publication : Utusan Malaysia
Date : 29 April 2019
Page : 02

Headline : Audit bangunan melebihi 20 tahun
Publication : Harian Metro
Date : 30 April 2019
Page : 24



Newspaper Cutting

Headline : 'Dibaham' eskalator
Publication : Harian Metro
Date : 30 April 2019
Page : 22

'Dibaham' eskalator

■ Kanak-kanak 6 tahun tahan kesakitan hampir setengah jam

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Serdang

Kanak-kanak lelaki berusia enam tahun terpaksa menahan kesakitan hampir setengah jam apabila kaki kanannya tersepit pada eskalator di sebuah pusat membeli-belah di Seri Kembangan di sini, Sabtu lalu.

Jurucakap Jabatan Bomba dan Penyelamat Malaysia (JBPM) Serdang berkata, pihaknya menerima panggilan awam memaklumkan kejadian berlaku di tingkat dua premis itu jam 5.34 petang.

"Susulan itu, sepasukan pegawai dan anggota dikerahkan ke lokasi untuk membantu mangsa," katanya ketika dihubungi di sini, semalam.

Beliau berkata, anggota bomba berjaya mengeluarkan kaki mangsa yang tersepit menggunakan peralatan khas.

"Mangsa yang cedera ringan disetahkan kepada pasukan perubatan Hospital Serdang yang turut berada di lokasi untuk memberikan rawatan," katanya.



FAKTA
Anggota bomba mengeluarkan kaki mangsa yang tersepit guna peralatan khas

KANAK-KANAK lelaki berusia enam tahun cedera selepas kaki kanannya tersepit pada eskalator di sebuah pusat membeli-belah di Seri Kembangan.

Newspaper Cutting



THANK YOU VERY MUCH
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