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JBEEA at ST's Customer Day

On 12th July 2012, the Johor Bahru Electrical & Electronics Association (JBEEA) participated in ST's Customer Day at Dewan Jubli Intan, Kluang.

JBEEA was offered a booth to provide information to the public. The event was well received by the public and the electrical stakeholders.



JBEEA's booth – JBEEA participated in ST's Customer Day.

Charity Golf Tournament

JBEEA organised a charity golf tournament on 20th September 2012 at Palm Villa Golf & Country Resort.

All proceeds from the tournament amounting to RM 10,000 has been donated to the Kiwanis Club of Metro Johor Bahru and some Chinese schools.

JBEEA thanked all the sponsors and golfers for their support and generosity for a good cause.



For the album – Enthusiastic golfers.

Electrical Association of Sarawak & Sabah (EASS)

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 E-mail: sibuccci@gmail.com

Mr Hii Hua Chuon, Chairman of Electrical Association of Sarawak & Sabah (EASS) together with ten EASS members attended the TEEAM Diamond Jubilee Dinner on 8th September 2012 at One World Hotel. It was a great opportunity for EASS members to network with counterparts from West Malaysia.



Brotherhood – (far right) Mr Hii Hua Chuon (EASS Chairman) posing with TEEAM Officials & representatives from State Associations.



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 E-mail: jfchew@pd.jaring.my

TEEAM Council Meeting in KK

Representatives from Sarawak Electrical Association (SEA) attended the TEEAM Council Meeting in Kota Kinabalu on 19th January 2013.



The meeting was hosted by Sabah Electrical Association (PES) at its premises. It was a good meeting to build stronger bond with members of PES.

Attentive – (left) Mr Sim Meng Chung (SEA Committee Member) and Mr Francis Chew Joon Fah (SEA Chairman).

During their working trip to Kota Kinabalu, Mr Francis Chew Joon Fah and Mr Sim Meng Chung joined the TEEAM Council members and staff to the Monkey Tops Safari which is a wetland forest enriched with wildlife such as proboscis monkeys, long tail macaques, crocodiles, fireflies and many species of birds. Both had a great time in Kota Kinabalu with fond memories.



Exciting – (centre) Mr Francis Chew (in red shirt) and Mr Sim Meng Chung joining other TEEAM Council members and staff on a boat trip.

Other State Association Members' contacts:



Malacca Electrical Contractors and Traders Association
 No. 389-G1, Taman Pringgit Jaya,
 Jalan Mata Kuching, 75400 Melaka.
 Tel: +606 - 283 8688 Fax: +606 - 781 1466



Negeri Sembilan Electrical Engineering Association
 c/o No. 194, Jalan Pantai, 71000 Port Dickson.
 Tel: +606-647 1105 Fax: +606-647 4728

Sandakan Electrical Engineering Association, Sabah

Block B-2, Lot No. 25, Bandar Utama,
 Batu 6, Jalan Utara, 90000 Sandakan, Sabah.
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- Trend indicator
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- Service-interface (USB)

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Hygro Palm 23 AW-Set

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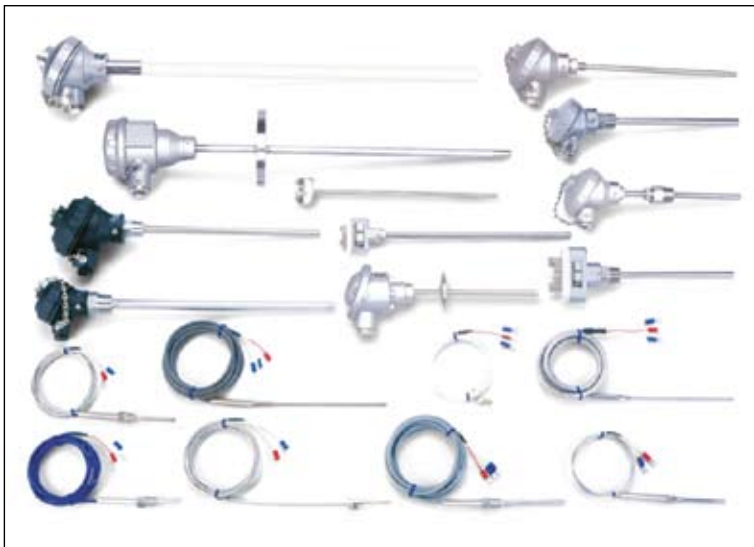
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Malaysia CIE National Committee News

Malaysia joins the International Commission on Illumination (CIE) as a National Committee since March 2010. TEEAM hosts and facilitates the Secretariat of Malaysia CIE National Committee. The technical activities of Malaysia CIE are carried out under the seven technical divisions headed by the following respective division heads:

- Head of Division 1 & 2: Dr John See Keat Siang
Vision and Colour & Measurement of Light and Radiation
- Head of Division 3: Mr Tay Hooi Seng
Interior Environment and Lighting Design
- Head of Division 4 & 5: Ms Lim Swee Yoong
Lighting and Signaling for Transport & Exterior Lighting and other Applications
- Head of Division 6: Dr Chang Kee Kwong
Photobiology and Photochemistry
- Head of Division 8: Dr Tan Ching Seong
Image Technology

Divisional Meeting 4 & 5 in Blacksburg, USA

To encourage the local industry to participate more actively in the CIE activities, Malaysia CIE has offered to host the CIE Division 4 & 5 meeting in Malaysia in April 2014. Malaysia CIE had sent two delegates to attend the Division 4 & 5 in Blacksburg, Virginia, USA from 13th to 15th September 2012. They were sponsored by Standards Malaysia. The delegates were Ms Lim Swee Yong and Mr Donny Chan. They were given the tasks to build network and to lobby delegates from overseas to come to Malaysia for the 2014 divisional meeting, and obtaining information and to observe how divisional meeting is being organised.

CIE Divisional meeting is developed to provide an international platform for

information exchange and development of recommended practices related to the lighting industry. Technical Committees are established in each Division to work on specific subject. The delegates participated in the TC meetings where the development of recommended practices and documents related to the lighting industry are being discussed.

CIE Conference on Lighting Quality & EE in Hangzhou, China 2012

CIE in cooperation with the Chinese Illumination Engineering Society organised a conference on Lighting Quality & Energy Efficiency (EE) from 19th to 21st September 2012 in Hangzhou. It was well attended by some 300 participants of whom 80% were foreign participants. Malaysia was represented by Mr C T Siew and Mr Narendren Rengasamy whose trip were sponsored by Standards Malaysia. They were also given the tasks to lobby for participants to attend the 2014 divisional meetings and conference in Malaysia.

The conference lecture was divided into:

- CIE colorimetry
- Metrology and application for SSL & LED lighting
- Standards development for SSL and LED lighting



Attentive – MyCIE meeting held at UM Wisma R & D on 16th January 2013.



Blacksburg meeting - Technical Committee Members posing a group photo.

CIE Conference on Lighting Quality & EE 2014

Malaysia volunteers to host the 2014 CIE Conference to be held from 23rd to 26th April 2014 in Kuala Lumpur. While Division 2, 4 & 5 meetings will be held from 28th to 30th April 2014. An Organising Committee was formed to prepare the budget and to get the necessary proposals done.

World LED Standardisation Conference, Daegu, Korea

The Korea LED Association (KLEDA) organised the World LED Standardisation Conference on 30th August 2012 with LED-IT Fusion Technology Research Centre in Daegu. Mr C T Siew participated in the conference and gave a presentation on the LED Market Trends, Policies & Standardisation in Malaysia.



Representatives from Malaysia – (right) Mr C T Siew (MyCIE Chairman) & Mr Narendren Rengasamy (MyCIE Treasurer).



Overwhelming – CIE Conference on Lighting Quality & Energy Efficiency 2012 in Hangzhou.



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E-mail: wiseprosb@gmail.com, info@wiseprocorsa.com.my

INTRADE Malaysia

INTRADE Malaysia 2012 exhibition was successful organised by Malaysia External Trade Development Corporation (MATRADE) from 27th to 29th November 2012 at MATRADE Exhibition & Convention Centre (MECC), Kuala Lumpur. INTRADE is an annual event aimed to enhance networking, business matching, exchange of ideas and knowledge amongst the business communities from different countries, especially those seeking to venture into the global market.

377 diverse exhibitors from Malaysia and 15 other countries participated in this international event to seek global trade opportunities. Wholesalers, agents, distributors, property developers, contractors, engineers, architects, interior designers, government departments & agencies converge at this meeting place annually.

INTRADE Malaysia 2012 provided an interactive platform for business leaders, entrepreneurs and investors to gain insights into global business prospects and opportunities, to network and establish collaboration towards gaining a competitive edge in the challenging global market.

The profile of the exhibitors covered electronics and electrical, food & beverages, furniture & fittings, gifts, souvenirs & jewellery, information & communications technology, machinery & equipment, healthcare, pharmaceuticals, toiletries & cosmetics, professional services, rubber products and wood products.

TEEAM also participated as an exhibitor in this annual MATRADE event. Some TEEAM Officials were present to show support. Mr Suresh Kumar Gorasia (TEEAM International Affairs Chairman & Past President) held a meeting with the Thai Tool & Die Industry Association to promote trade cooperation and business opportunities



Networking – (from left) Mr Sanchai Noombunnam (Project Director, UBM Asia Thailand), Mr Suresh Kumar Gorasia (TEEAM International Affairs Chairman & Past President), Mr Viroj Sirithanasant (President of Thai Tool & Die Industry Association) and Mrs Sukanya Amornurathkun (Senior Sales & Marketing Manager, UBM Asia Thailand).

among members of both associations. It was a fruitful trade event at INTRADE Malaysia 2012.

INTRADE Malaysia 2013 will be held from 26th to 28th November 2013. For details, please log on to www.intrademalaysia2013.com



International Energy Week

Sarawak hosted the 2nd International Energy Week (IEW) which was held from 16th to 18th October 2012 at the Borneo Convention Centre, Kuching. Organised by Confexhub, it was hosted by the Sarawak State Government. In conjunction with this event, an International Energy Conference and Exhibition which focused on the energy, power and oil & gas industry in the region was held. The event was designed to create a perfect climate for the stakeholders and global investors in the regional power sectors to converge and meet.

The International Energy Conference 2012 was tailored for participants to meet face-to-face and discuss a wide spectrum of recent trends and research and development in the region, whilst keeping in mind the industry objective of sustainable development growth for Asia. More than twenty eminent guest speakers representing various ministries and agencies, inter-governmental organisations, practicing consultants, commercial catalysts from the region spoke on a wide range of topical issues and future prospects.

YB Dato' Sri Peter Chin Fah Kui, Minister of Energy, Green Technology and Water was present to give a ministerial address. While YAB Pehin Sri Haji Abdul Taib Mahmud, Chief Minister of Sarawak, Sarawak State Government gave an inaugural address and launch the IEW 2012.

The conference sessions held were focused on:

- Building Sustainable Energy Security for Economic Growth
- Establishing Effective Investment Policies for Renewable Energy Sector in Asia
- Power, Petroleum & Gas Streams
- The Sarawak Corridor of Renewable Energy Forum

- Energy Catalyst Forum

The event was supported by TEEAM and Mr Francis Chew Joon Fah (Council Member) was present to show TEEAM's support.



At IEW 2012 – (from left) Mr Syed Mohamad Fauzi Shahab (Director of Electricity Supply, Ministry of Public Utilities, Sarawak), Mr Peter Lu (TEEAM Member) and Mr Francis Chew Joon Fah (TEEAM Council Member & Chairman of Sarawak Electrical Association).



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Challenges and Opportunities in Electrical Industry - Part 19

This paper is prepared by Ir Chew Shee Fuee, TEEAM Vice President.

Guide for Electrical Wiring in Residential Buildings (Garis Panduan Pendawaian Elektrik Di Bangunan Kediaman)

Suruhanjaya Tenaga (ST), Malaysia has published the above Guide in 2008. The Commission is reviewing the document and will make any amendment or improvement if it is necessary. The document is available at ST website.

Here, I would like to highlight the key points that will improve the performance of our distribution boards.

Previously we install RCDs of 100mA in all our DBs. This is no longer adequate because of the need of 30mA RCDs where socket outlets are used by hand-held equipment which require more sensitive protection. The 10mA RCDs for protecting water heaters are installed especially in cases where instant water heaters are used.

In the Guide, the usage of RCDs from 100mA, 30mA and 10mA is clearly indicated. The guide also encourages the application of single phase RCDs in three phase DBs. This is restricted to three phase DBs supplying only single phase loads. The three single phase RCDs can provide more discriminative protection. Only the affected phase will suffer outage leaving the two sound phases to continue and provide supply. I have been told that JKR has adopted this. I believe some consultants have adopted such practice as well.

The usual problem with RCDs is the discriminative tripping problem. If 30mA RCD is used in series with a 100mA RCD it is most likely that both will operate in the event of a leakage. Either the 100mA RCD is time delayed or the more sensitive RCD should not be used in series with one that has a higher sensitivity.

I do not have any data on how well the recommendation of the above Guide has been practised since 2008. I hope the application of RCDs will be improved by using the

relevant RCDs in each zone of protection. The initial investment in the installation of sufficient RCDs can reduce the nuisance tripping frequency.

In offices particularly where RCDs are properly deployed, they can prevent many unnecessary outages for the equipment used. We cannot have too many electronic equipment connected to a single unit of RCD. More RCDs are necessary as the demand for it increases according to the number of devices connected.

Smart Grid

You may have heard about Smart Grid and wonder how is it going to affect us. As devices and equipment are getting more intelligent it ushers in smart technology. If we wish to balance the power generation and consumption in the most efficient and optimum manner we have no choice but to engage Smart Grid.

Smart meters can help us to know and identify the consumption patterns of each consumer. This information is useful in the management of generation capacity. With tariff incentives we can entice users to alter their pattern of consumption. It is a win-win for the generators and the users.

We have an increasing amount of distributed generation provided by renewable energy such as wind, solar and bio-gas. The level of system control can only be handled efficiently if Smart Grid technology is applied.

Technological innovations which are related to Smart Grid include:

1. Communication Technology
2. Measurement Technology
3. Equipment Technology
4. Control Technology

If electrical vehicles become a common mode of transportation, Smart Grid will play a vital role to provide the energy needed. The battery in the electrical vehicle will be a great source for storing the energy so that a shift in the total power of the grid can be made possible.

We are still in the early days of Smart Grid and we have to plan for our own future with Smart Grid in mind. Some pilot schemes of Smart Grid application are being implemented in the Malaysian system. USA, Japan and Korea have invested substantially in the nurturing of technologies in this area.

Ir Chew Shee Fuee B Sc (Hons) (Strathclyde), PEng, CEng, FIEM, MIEE Member, IEEE Member, 1st Grade Electrical Engineer (Competent up to above 500 kV).

Ir Chew is the Vice President (Engineering Construction and Services) of The Electrical and Electronics Association of Malaysia (TEEAM). He was TEEAM President for 2001 - 2003 and 2003 - 2005. He is the Past President of the Asean Federation of Electrical Engineering Contractors (AFEEC).

Ir Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and QATM Engineering Services Sdn Bhd. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by Energy Commission as a competent engineer (without voltage limits) and a service engineer to carry out electrical testing up to a voltage of 500 kV.

Ir Chew has more than 30 years experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgear and relays. His work also includes electrical supervision of substations and electrical audit. He presents lectures on electrical apparatus and the protection system. He is at present a WG representative in the development of Green Technology Road Map Phase 1. He is also a member of the National Energy Efficiency Technical Working Group. He is the Immediate Past President of IET Malaysia (Institution of Engineering & Technology) and Board Member of IET's APRB (Asian Pacific Region Board). He can be reached at E-mail: sfchew@ghliew1990.com.

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Enycase - Cable junction boxes
Enystar - Combinable enclosure system with door
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Enycon - Assemblies for construction sites

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Waterproof Cable Junction Boxes

Time and again, electricians come across installation environments whereby the ingress of water into an enclosure must be safely excluded. Even enclosures which have a high degree of protection cannot guarantee this. In all high-sealed housings condensation can form, which can, depending on the amount, result in harmful damage to the electrical device. In application areas with e.g. risks of flooding, where any ventilation measures to prevent condensation should be avoided, the high degree of protection is not a reliable solution.

Which applications require waterproof cable connections?



Pump shafts / stations



Ground-level installation ducts or shafts in outdoor areas



Ground-level unprotected outdoor installation



Unprotected outdoor installations which are close to the ground



Flood areas close to rivers or marinas



In extreme environments with constant high humidity

Why is the IP degree of protection alone not sufficient?

Even housings with high degree of protection cannot safely exclude the ingress of water and dust. All IP ratings allow for example ingress of water into a housing in a non-harmful quantity. Under extreme environmental conditions, for example, the accumulation of condensation may result in damage to the electrical installation or devices or cause them to malfunction. Ventilation measures will often suffice to prevent harmful condensation from forming. In many cases, however, ventilation is not possible, e.g. because the cable junction boxes are installed close to rivers and water could enter through the vent holes.

Under extremely conditions even an IP68 cable junction box cannot prevent harmful accumulation of water inside by condensation. Absolute water tightness is only guaranteed if the boxes are encapsulated. In Germany, a standard is developed, which is described in the DIN VDE V 0606-22-100 standard.

Permanent waterproof cable connection solutions consisting of cable junction boxes, suitable sealing compound and plugs that meet the requirements of extreme environments, thus ensuring the operation of the electric circuits.

The waterproof cable connection via encapsulating with a sealing compound



1 Open protective aluminum foil. Do not damage internal bag with sealing compound.



2 Remove divider between the two components of the sealing compound.



3 Mix well for three minutes the two components of the sealing compound.



4 Cut open sealing compound bag.



5 Use funnel for feeding sealing compound. The compound takes 45 minutes to process.



6 Insert plug, after the case has been completely sealed.

Benefits for electricians

- Sealing cable junction boxes with a fast setting, permanently elastic sealing compound, the ingress of water and forming of condensation is completely excluded.
- The sealing compound features outstanding insulation properties. As the compound is transparent, it is possible for visual inspections of the installation to be carried out at any time.
- The durable elastic material is self-sealing, therefore it is also easy for the electrical connections to be tested after they have been sealed.
- The sealing compound can be easily removed for repairs, subsequent installations or changes to installations.
- Additionally the sealed cable junction boxes also offer reliable protection against shock and vibration.
- The sealing compound does not, however, provide strain relief as it only adheres to material and does not stick together. Suitable cable entries must also be used here.



For repairs, subsequent installations or changes to installations the sealing compound can be easily removed:
- Take off lid and
- remove sealing compound

This article on cable junction boxes suitable for encapsulating for permanent waterproof connections is extracted from Hensel Elektro Tipp Volumn 2/2012. For enquiry, please contact salespessb@gmail.com



Important Meeting Mark Your Calendar

TEEAM Annual General Meeting & Election 2013 cum Specialised Group General Meeting

Date : 12th May 2013 (Sunday)
Time : 10.00 am – 1.00 pm
Venue : TEEAM Conference Room

Registration : Contact TEEAM Secretariat
Tel : +603-9221 4417, 9221 2091
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The Prevalence of Substandard Cables In Malaysia

Introduction

As early as year 2000, spiralling global inflation rates and unpredictable commodity prices have plagued the world construction market.

Here in Malaysia, from the electrical market perspective, the cost of doing business has increased. Despite of commodity and currency hedging, many manufacturers, contractors and dealers could not manage this risk of having cost overruns in their projects and transactions. These parties have come to realise that they are very susceptible to adverse upward swift in commodities pricing. In times of unfavourable market conditions, the pressure of sustaining profitability takes precedence over compliance to rules and regulations. Hence, flooding of substandard cables in the market is mainly due to the following factors:

- The high demand for lower priced and compromised products
- Unscrupulous traders and manufacturers who compromise on quality and safety for profitability
- Lack of consumer awareness.

Definition of Substandard Cables

Substandard cables are cables not designed, constructed, test approved, installed or used in accordance to their prescribed standards and/or specifications.

The main characteristics of substandard cables are as follows:-

- 1) The reduction of the diameter of the required copper conductor
- 2) The content and purity of the conductor
- 3) Lower grade/recycled material for insulation
- 4) The reduction of the recommended insulation thickness
- 5) Improper labelling of regulatory body approval and non-genuine quality certificates
- 6) Compromised cable length.

The consequences of using substandard cables are:

- cable overheating
- electrical disruption
- electrocution
- fire outbreak

Cables must be designed, constructed, test approved, installed or used in accordance to their prescribed standards. In particular those of ST regulated items on non-armoured wires/cables/cords of 0.5sqmm to 35sqmm to MS 136:1987, MS 140:1987 and MS 2112-1:2009 to MS 2112-6:2009 standards. All ST approved cables are tied back to SIRIM teating and aoorovals. Laser printed/inked/embossed information of manufacturer's name/brand, cable size, insulation type, insulation voltage and compliance standard

(such as MS 136, MS 140 or MS 2112 must appear at fixed intervals on the cable.

Objective

This article focuses on the problems related to undersized cables, especially those regulated by Suruhanjaya Tenaga (ST). The article provides some simple methods to identify undersized cables. It also highlights each individual stakeholder's responsibility in order to prevent the undersized cables from reaching the market.

Background

Electrical wiring was reported to be a major cause of fire outbreak. For example, in the first half of 2012, 809 cases of fire caused by electrical wiring were reported against a total of 2,317 cases of fire outbreaks (source: <http://www.bomba.gov.my>). As such, being the major component in electrical wiring, wires/cables/cords (non-armoured) of sectional area 0.5sqmm to 35sqmm are regulated by ST many years ago. This means a SIRIM certification is needed for such product. If this product is sold without a SIRIM label, ST will confiscate this product. If this product fails the safety requirement, under clause 37 of the Electricity Supply Act 1990, the offender upon conviction will be liable to a fine not exceeding RM100,000 or imprisonment for a term not exceeding five years or both.

Calculation of Cable Conductor Size

The formula of round surface area is πr^2 , where r is the radius of one strand of conductor. For example refer to table 1, a cable with conductor of 7 strands and diameter of 0.67mm, the nominal sectional area can be calculated as below:

$$\begin{aligned} &(\text{Number of strand}) \pi r^2 \\ &7 \pi (0.67/2)^2 \\ &=7(3.142) (0.335)^2 \quad \pi=3.142 \\ &=2.47 \text{ mm}^2 \\ &=2.5 \text{ mm}^2 \end{aligned}$$

Table1: Cable Conductor Size

Nominal Sectional Area(mm ²)	Number/Diameter of Strands(Number/mm)
1.5	7/0.53
2.5	7/0.67
4	7/0.85
6	7/1.04
10	7/1.35
16	7/1.70

Conversion of Imperial Cable Sizes to Metric Cable Sizes

Some manufacturers may mark their cables in imperial values such as 3/036 and 7/029. 3/036 means 3 strands of conductor each measuring 0.036 inch in diameter. 7/029 means 7 strands of conductor each measuring 0.029 inch in diameter.

Using the same formula, the conductor size for 3/036 is

$$\begin{aligned} &(\text{Number of strand}) \pi r^2 \\ &(3) (3.142) [(0.036 \times 25.4) \div 2]^2 \quad 1 \text{ inch}=25.4\text{mm} \\ &=1.97\text{mm}^2 \end{aligned}$$

Using the same formula, 7/029 cable has a conductor size of 2.98 sqmm.

Some Methods To Avoid Buying Undersized Cables

- 1) i) For an estimated cable conductor size calculation, use a micrometer to measure the diameter of one strand of conductor and do a calculation base on the above formula.
ii) For an exact cable conductor size calculation, diameter measurements of each strand are taken twice at 90 degrees apart and average value is considered. The sum of all the strands conductor sizes is the actual cable conductor size.
- 2) Look for SIRIM certification mark
- 3) To use only renowned and established cable brands
- 4) To engage only Suruhanjaya Tenaga licensed electrical contractors
- 5) Check out the maximum conductor resistance of cable per coil and counter check with those shown on table 2.

Table 2: Guideline of Cable Resistance Value

Copper/PVC insulated cable (mm ²)	Max. Conductor Resistance DC at 20 Deg C (Ω/100m)
1.5	1.210
2.5	0.741
4	0.461
6	0.308
10	0.183
16	0.115
25	0.073
35	0.052

Stake Holders' Responsibilities

It is important that the respective stakeholders play their own roles. By so doing only can we maintain a healthy and sustainable industry.

Domestic Trade, Cooperatives and Consumerism Ministry	Stricter enforcement and a stronger and more efficient legislative framework
Suruhanjaya Tenaga	- To step up enforcement in order to eradicate substandard cables in the market. - To allocate fund for other stake holders to form a strong and active surveillance group. - To proactively informing public of the dangers of substandard cables.
Manufacturer	-To register regulated product with SIRIM and ST. -To proactively educate the public of cable standards/ specifications.
Importer and traders	To import and sell only certified cables by SIRIM and ST.
Electrical contractors	To buy and install only certified cables by SIRIM and ST.
End users	To engage only ST licensed contractors.

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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 19th January 2013). A warm welcome to all the new members and special appreciation is extended to those who introduced these new members. For those who are not yet members..... why wait? Join us and find out how our Association can offer our services to you.

<p>FITTERS – MCCT Sdn Bhd Wisma FITTERS, No. 1, Jalan Tembaga SD 5/2, Bandar Sri Damansara, 52200 Kuala Lumpur. Tel: +603-6276 7155 Fax: +603-6275 8712 E-mail: project@fittersgroup.com Website: www.fittersgroup.com Contact Person: Mr Chin Yong Shing Business: <i>Mechanical and electrical contractor.</i></p>	<p>LM Lighting Malaysia Sdn Bhd A-19-3, North Point Offices, Mid Valley City, No. 1, Medan Syed Putra Utara, 59200 Kuala Lumpur. Tel: +603-2282 1416 Fax: +603-2282 1342 E-mail: malaysia@ligman.com Website: www.ligman.com Contact Person: Mr Narendren Rengasamy Business: <i>Manufacturing and trading of lighting.</i></p>
<p>Emas Kiara Electrical Sdn Bhd Lot 13A, Jalan RP3, Rawang Industrial Estate, 48000 Rawang, Selangor Darul Ehsan. Tel: +603-6092 9898 Fax: +603-6093 4380 E-mail: siewbeegoh@emaskiara.com Contact Person: Mr Walter Hiew Kim Swee Business: <i>Lighting, lamps and bulb trading. Electrical/lighting design, engineering and construction services.</i></p>	<p>Arc Power Marketing Sdn Bhd Lot 28242, Kampung Jaya Industrial Area, 47000 Sungai Buloh, Selangor Darul Ehsan. Tel: +603-6145 3388 Fax: +603-6157 8177 E-mail: derek.wong@arcpower.com.my Contact Person: Mr Derek Wong Business: <i>Distribution of LV installation components and accessories.</i></p>
<p>Tridonic Malaysia Sdn Bhd A-13-05, Bayu Tasik 2 Condo, Jalan Sri Permaisuri 5, 56000 Kuala Lumpur. Fax: +603-9174 2833 Mobile: +6012-366 5281 E-mail: daniel.sy.wong@tridonic.com Website: www.tridonic.com Contact Person: Mr Daniel Wong Business: <i>Trading in lighting components, lighting management systems and LEDs.</i></p>	<p>Swift Automation Sdn Bhd No. 43G & 43-1, Jalan Suria Puchong 2, Pusat Perdagangan Suria, 47110 Puchong, Selangor Darul Ehsan. Tel: +603-8959 8185 Fax: +603-8959 8186 E-mail: aclim@senergy.com.my Website: www.senergy.com.my Contact Person: Mr Kenny Lok Wei Seng Business: <i>Trading of connectors, heatings, lighting and lightning protection system.</i></p>
<p>Info – Matic Power Sdn Bhd No.5, Jalan 3/27B, Seksyen 10, Wangsa Maju, 53300 Kuala Lumpur. Tel: +603-4142 8225 Fax: +603-4142 8229 E-mail: sales@imp-ups.com Website: www.imp-ups.com.my Contact Person: En Zolkpli@Nik Zokipli Bin Nik Husin Business: <i>Electrical contractor, mechanical engineering and electrical products supplies.</i></p>	<p>MCC Technique Sdn Bhd C-01-16, Jalan PPK 1 Persiaran Kinrara Sek 3, Taman Kinrara, 47100 Puchong, Selangor Darul Ehsan. Tel: +603-8076 8111 Fax: +603-8076 5268 E-mail: lcong@mcc.com.my Website: www.mcc.com.my Contact Person: Mr Ong Lay Cheong Business: <i>Electrical and mechanical.</i></p>
<p>Lian Sing Electrical Sdn Bhd No. 506, Ground Floor, Jalan Tuanku Antah, 70100 Seremban, Negeri Sembilan Darul Khusus. Tel: +606-763 9863 Fax: +606-763 9836 E-mail: liansingsb@gmail.com Contact Person: Mr Lian Tian Choon Business: <i>Electrical parts trading.</i></p>	<p>Building Wiring Installer Course New intake open for registration Tel: +603-9221 4417 E-mail: teeam52@gmail.com Website: www.teeam.org.my</p>



..... Continue The Prevalence of Substandard Cables In Malaysia

Suggestion

We strongly appeal to our members not to buy, sell or use substandard cables. In the event that members encounter such product, they should feedback to TEEAM. TEEAM will in turn channel the findings to the relevant authorities for necessary actions.

Notes

Calculations provided above are for general guideline only and reference should continually be made to the respective Malaysian Standard (MS) covering the proper cable types. All ST regulated cable types are now covered by MS, hence “equivalent” standards should no longer be used. In case

of any doubts or queries, please refer to TEEAM or Malaysian Cable Manufacturers Association (MCMA) or any of its members.

This article is contributed by Engr Leong Kam Seng & Mr Stan Lim, TEEAM Safety & Quality Committee Members. They can be contacted at cahayafasa@live.com stanlim@nanyangelectric.com





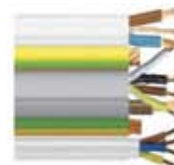
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CIPAA 2012

The Construction Industry Payment and Adjudication Act 2012 (CIPAA 2012) was gazetted on 22 June 2012 to:

- Facilitate regular and timely payment;
- Provide a mechanism for speedy dispute resolution through adjudication;
- Provide remedies for the recovery of payment in the construction industry; and
- Provide for connected and incidental matters.

Introduction

- The construction industry, in particular, the Construction Industry Development Board (CIDB) and Master Builders Association Malaysia (MBAM) and other related promoters have been instrumental in getting the government to enact this piece of legislation since 2003 to address the cash flow problems plaguing by the industry.
- The primary objective of the Act is to address cash flow problems in the construction industry.
- It removes the pervasive and prevalent practice of conditional payment ('pay when paid', 'pay if paid' and 'back to back') and reduces payment default by establishing a cheaper and speedier system of dispute resolution in the form of adjudication.
- The Act also provides for the recovery of payment upon the conclusion of the adjudication process in addition to a host of other remedies such as a right to reduce the rate of work progress or to suspend work or even to secure direct payment from the principal.
- It further provides default payment terms in the absence of provisions to that effect in the construction contract.

What is Statutory Adjudication?

- Adjudication is a means of dispute resolution that allows a party ("the claimant") who is owed monies under a construction contract to promptly obtain payment from the non-paying party ("the respondent"), based on an assessment of the merits of the claim by an appropriately qualified and independent industry expert i.e. the adjudicator.
- Statutory adjudication is essentially an adjudication process prescribed by CIPAA.
- It is conducted privately and ensures confidentiality.
- It is a mandatory and statutory process that does not require the agreement of the parties' to commence the process and prevails over any contractual agreements to the contrary between the parties.

- It offers a relatively simpler, cheaper and faster process compared to arbitration and/or court proceedings by virtue of express provisions prescribed by the Act itself.
- The adjudicator must make a decision within forty five (45) working days from the completion of the reference by the parties to him; failing which his decision is regarded as void and that he cannot recover his payment.
- The decision is temporarily binding in that it can still be subjected to an arbitration or litigation in court i.e. if either or both the parties so desire.

In the interim, the parties need to still comply with the adjudicator's decision and pay the disputed amount unless the decision is stayed (by application made to the High Court).

What Does It Affect?

- CIPAA applies to every 'construction contract' (as defined by the Act) relating to construction work carried out wholly or partly in Malaysia. It therefore affects both local and international contracts that fall within the ambit of the Act.
- CIPAA identifies the particular construction contracts which are included within its scope. Generally, these encompass construction work contracts and consultancy services contracts.
- More importantly, CIPAA only applies to contracts which are made "in writing".
- The Act applies equally to the Government of Malaysia as well as the Private Sector.
- CIPAA is wide ranging and covers inter alia, the building industry, the oil and gas industry, the petrochemical industry, telecommunication, utilities, infrastructure, supply contracts and consultancy contracts.
- CIPAA does not apply to an individual owner i.e. resident, who is building a house not more than four-storeys high which is wholly intended for his own occupation.
- Statutory adjudication is compulsory in that any party to a construction contract who is neither excluded nor exempted under the Act has the right to resort to adjudication. No contracting out of the Act is permitted so as to defeat the application of its provisions and/ or the objectives of the Act.
- Only payment disputes for work done and services rendered under the express terms of a construction contract may be referred and be subjected to adjudication.

What Are The Main Steps Involved In Adjudication?

The adjudication process can be summarised by the following principal steps –

Step 1: Making the Payment Claim

The unpaid party may serve a Payment Claim on the non-paying party. The non-paying party may then respond by making payment or by serving a Payment Response on the unpaid party in reply to the claim within 10 working days. If there is a failure to respond within this time, it is deemed that the entire payment claim is disputed. Either party may then refer the dispute to adjudication.

Step 2: Initiation of Adjudication

The adjudication proceeding is initiated by the serving of a Notice of Adjudication by the Claimant on the Respondent.

Step 3: Nomination of Adjudicator

An adjudicator is thereafter nominated by the agreement of both parties in the dispute within 10 working days from the service of the notice. Upon any disagreement, or if the parties so desire, a request can be made to KLRCA for the adjudicator to be nominated by the Director of the KLRCA who has 5 working days to undertake the same.

Step 4: Adjudication Claim & Response

Once the adjudicator is nominated and has negotiated and accepted the terms and conditions and the relevant fees, the Claimant has to serve the Adjudication Claim on the Respondent within 10 working days upon receipt of the acceptance by the adjudicator. The Respondent has to then serve the Adjudication Response on the Claimant within 10 working days particularizing his defence and response following which the Claimant may then serve a further Adjudication Reply within 5 working days.

Step 5: The Adjudicator

The adjudicator would then start with the review of the documents submitted and the making of his decision. He may call for meetings, require interrogatories to be answered by the parties, call for clarifications and further documents, if necessary to help him with his task. In doing so, the adjudicator has to abide by the rules of "natural justice" and the relevant provisions of CIPAA.

Step 6: Adjudication Decision

The Adjudicator has to reach a decision, formulate it and deliver the decision not later than 45 working days from the service of the Adjudication Response or Adjudication Reply, whichever is later unless the parties agree otherwise expressly. An adjudication

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decision which is not made within the specified period is statutorily void. The adjudicator may also direct full payment of the fees and expenses to be deposited with the Director of KLRCA prior to the release of the adjudication decision to the parties. A copy of the decision must be provided not only to the parties but a copy must be served on the Director of KLRCA as well.

Who Can Start The Adjudication?

- Either party to a construction contract can start the process of adjudication provided the right to do so under the Act has accrued.
- This can be done by serving a notice of adjudication on the opposing party.

How Do I Choose An Adjudicator?

- Parties are entitled to choose their own adjudicator by mutual agreement as specified by CIPAA.
- If the parties are unable to so choose, a request in writing can be made to the Director of the Kuala Lumpur Regional Centre for Arbitration (KLRCA) to nominate an adjudicator.
- It is important that the adjudicator selected is well qualified and experienced to deal with the particular dispute and to handle the adjudication process in a timely and cost effective manner as prescribed by the Act.

Do I Need A Lawyer?

- A party to the adjudication proceedings may represent themselves or by any representatives appointed, who may be a lay practitioner or a lawyer.
- A lawyer may however be necessary if there is a reference for a stay or for the enforcement of the adjudicator's decision to the High Court.

What Happens During An Adjudication?

- The adjudicator is given a list of powers, duties and obligations by the CIPAA to conduct the adjudication.
- The procedure as stipulated in the Act must be complied with. It is generally informal and relatively flexible; being both adversarial and inquisitorial.
- Generally, the adjudicator invites written submissions and evidence from both parties. There may be a short hearing or meeting where further submissions can be made, witnesses cross-examined and the adjudicator may ask questions on matters in issue. An adjudicator may also conduct a site visit if necessary. He is permitted to use his own specialist knowledge subject to the rules of "natural justice" in dealing with the matter in dispute.

What Can Be Done If Payment is Not Made After The Adjudicator's Decision?

- CIPAA allows, as one of the remedies, for the "winning" party to suspend or reduce the rate of progress of the construction work provided notice is given to the "losing" party. The former is entitled to a fair and reasonable extension of time to complete his obligations under the contract after being paid and to recover any loss and expense incurred thereby.
- CIPAA further permits the "winning" party a right to request for direct payment from the principal of the party owing the monies, and the principal is required to pay the amount in question subject to the particular provisions of the Act.
- More importantly, the "winning" party can also apply to the High Court to enforce the adjudicator's decision whilst the "losing" party is permitted to seek a stay of the same by application to the High Court.
- CIPAA provides that the "winning" party can exercise any or all of the above rights or remedies concurrently.

How Is An Adjudicator's Decision Enforced?

- Both parties to a construction contract are required to comply with an adjudicator's decision.
- If one of the parties refuses to comply with the adjudicator's decision, the other party may enforce the adjudicator's decision through the courts. When enforced, the adjudicator's decision takes effect as a judgment of the court unless the opposing party obtains a "stay" from the court.

Who Pays For The Adjudication?

- Both parties are required to equally share the cost of the adjudicator's fees and expenses. These fees have to be deposited with the Director of the KLRCA in advance as security.
- The "loser" of the adjudication will have to pay eventually all the costs. As prescribed in CIPAA, 'costs follow event' which simply means that the loser must pay for the legal and other related costs to the "winner" in the adjudication proceedings.
- The "loser" of the adjudication must also pay for the amounts as decided by the adjudicator in regard to the payment dispute.

What Is The Role Of The Kuala Lumpur Regional Centre For Arbitration (KLRCA)?

KLRCA is responsible, inter alia, to:

- Set the competency standard and criteria of an adjudicator. This is done by providing

the relevant training courses to parties who are interested to become certified adjudicators.

- Certifying qualified adjudicators and listing them on KLRCA's panel of adjudicators.
- Determine the standard terms of appointment of an adjudicator and fees for his services.
- Provide administrative support for the conduct of adjudication under CIPAA.
- Undertake any other duties and functions as may be required for the efficient conduct of adjudication under this Act.

KLRCA will maintain a copy of each and every adjudication decision undertaken under CIPAA as the adjudicator is required to serve the same on the Director of KLRCA upon the conclusion of the matter referred to him.

KLRCA will also act as a stakeholder for the adjudication fees payable to the adjudicators, and for any adjudicated amount ordered by the court to be deposited with KLRCA by any party pursuant to an application for a "stay".

For KLRCA to play the above role, the adjudicator will direct the parties to pay the adjudicator's fees to the Director of KLRCA as advance security.

How Can I Prepare For Adjudication?

- General awareness of CIPAA is necessary.
- A good system of contemporaneous record keeping is essential. It will become vital should a party intend to pursue an adjudication action or to defend a claim.
- The payment terms in the construction contract must be adhered to as strictly as possible. The absence of payment terms would automatically trigger the operation of the default provisions under CIPAA; meaning, amongst others, that the fees prescribed by the relevant regulatory board under any written law will apply or if there are no prescribed fees then a fair and reasonable price would be awarded for the work and services done.
- An adjudication under the Act can only commence when a 'dispute' has arisen. An opportunity must be given to the other party to respond to the payment claim before an adjudication should be considered. If the other party denies the claim, disputes the claim or simply fails to respond to the claim, only then should an adjudication be triggered.

This article is extracted from KLRCA (Kuala Lumpur Regional Centre for Arbitration)'s reference handbook on what CIPAA is all about and its impact on the construction industry. The handbook is available at the TEEAM library for members' reference. It contains a copy of the Act.



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National Dual Training System

Introduction

Increasing globalisation of the world economy has made knowledge a crucial factor for social and economic development. It stresses the need for developing countries like Malaysia to have access to the knowledge that would allow them, among other things, to formulate and implement home-grown development policies and to make decisions that reflect and serve their national interests and priorities. Malaysia is a small country but has attained significant achievements in terms of national developments to its credit.

Malaysia is gearing up all its resources, especially its human resources, to attain the developed nation status by the year 2020. Globalisation and rapid changes in technology are among the challenges faced by the country. In order to be more competitive, Malaysia must have a more knowledgeable and competent workforce.

On May 19, 2004, the government decided that the National Dual Training System (NDTS) be initiated in 2005 to produce knowledge workers under a comprehensive training system, to meet the prevailing and future requirements. The training system will include all job levels for every economic sector.

The NDTS is a national agenda that requires the participation of various parties. Various government agencies, training providers, business and industry groups, associations as well as companies have been involved and mobilised to undertake certain responsibilities in its planning, promotion and implementation, whilst the Department of Skills Development (DSD) under the Ministry of Human Resources has been appointed as the coordinating agency to ensure the success of the system.

What is NDTS?

The **National Dual Training System** is an industry-oriented training that involves the combination of workplace and institutional training.

School leavers or existing workers who meet the criteria can be offered as apprentices by a sponsoring company to undergo training.

A contract is signed between the company and the apprentices prior to the training. Apprentices are given certain amount of allowance throughout the training by the company and are obliged to work with the company upon completion if they are offered employment.

In the NDTS, the practical or hands-on skills training is conducted in workplaces by selected coaches of the company, whilst the theoretical class and basic skills training in the training centre is undertaken by the centre's instructors.

Skill and knowledge assessment will be conducted continuously and the apprentice is expected to get through the assessment as well as the final test which will be conducted at the end of the training programme. Successful apprentices will be awarded with the national skills qualification by the Department of Skills Development.

The most distinguishing feature of the NDTS, in comparison with other skills training programmes, is the requirement for coaches and trainers to infuse or integrate **human and social skills values** as well as **learning and methodological skills** explicitly in the conduct of teaching or facilitating of a technical content. This is a value added component which is required by workers in the present competitive world.

The Main Feature of NDTS

The Objective:

To produce knowledge workers.

Target Apprentices:

School leavers or existing workers selected by the company.

Certification:

Malaysian Skills Certificate (SKM Level 1 – 3); Malaysian Skills Diploma (DKM); or Malaysian Skills Advanced Diploma (DLKM).

Training Duration:

Depending on programme and certification level as required by the company:

6 month for SKM Level 1;
6 month for SKM Level 2;
12 month for SKM Level 3;
12 month for DKM; and
18 month for DLKM.

Training Duration Ratio:

Practical/hands-on training:
70-80% of the whole duration at workplace;
and

Theory & basic skills:
20-30% of the whole duration at training centre.

Coaches (for practical)-Apprentice Ratio:
1:5.

Trainers (for theory)-Apprentice Ratio:
1:20.

Method of Delivery:

Day-Release:
4-5 days of training at workplace and 1-2 days at training centre; or

Block-Release:

4-5 months at workplace, and 1-2 months at training centre.

Training Approach:

Self-reliant learning.

Training Content:

Based on National Occupational Skills Standard (NOSS), NDTS Curriculum or other curriculum approved by DSD.

Assessment:

Continuous assessment and final exam.

Incentives:

For apprentice:

Training allowance by company.

For company:

Single tax deduction or HRDF reimbursement.

Why NDTS?

The NDTS, with its industry-oriented training concept, is deemed to be a superior institutional-based training because:

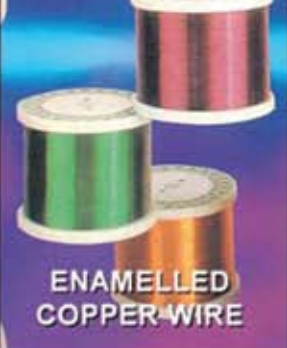
- It minimises mismatch (quality and quantity) between the company's requirement and skill workforce development through demand-driven orientation;
- Training is based on work process approach under actual work conditions;
- The need for continuous technological advancement (products and services);
- It minimises dependence on foreign experts and skilled workers;
- It increases the velocity of transferring technology to the people by providing training in the actual working environment that uses the latest machines, technology and practices;
- It offers a strategic and cost-effective succession plan by recruiting new workers or upgrading existing workers; and
- It inculcates positive training culture in companies, especially in SMEs.

Why organisations should recruit and train apprentices?

- Apprentices meet company requirements – relevant & practical-oriented;
- Apprentices develop the social skills and personal attributes needed for successful work;
- Apprentices develop strong ties with company;
- Apprentices can be reviewed carefully and the good ones chosen for permanent positions;
- To reduce costs for 'breaking-in' of new employees;
- To prevent the effects of an ageing workforce;



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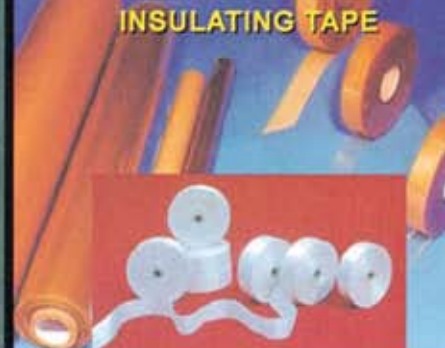


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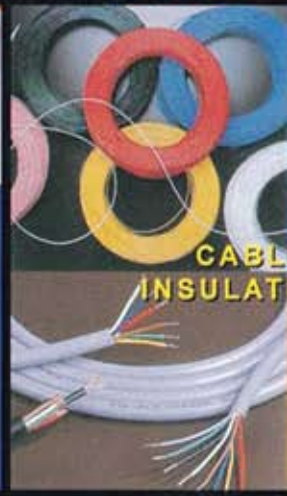
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What is RPA?

It is a way to give formal recognition to the skills and knowledge that one possesses, regardless of how, when and where the skills were acquired, and how these skills can achieve today’s industry standards. The skills and knowledge will be assessed based on selected National Occupational Skills Standard (NOSS). This system is in support of Life Long Learning.

- Qualification is given based on current NOSS.
- Skills and knowledge will be assessed according to the competencies stipulated in the NOSS.

Why should you get RPA?

- It can give you satisfaction and validation over the skills you have acquired.
- Your field requires a formal qualification or a certificate.

- You require a formal qualification or a certificate to get promoted at your job.
- You are thinking of changing jobs and acquiring more skills.

Why do employers need workers with qualifications and skills to be registered with the RPA?

- To get workers with good potential to increase productivity and improve company performance.
- To give recognition to the workers.
- To motivate workers to be more committed to their jobs.
- To identify further training to help raise job performance in the organisation.

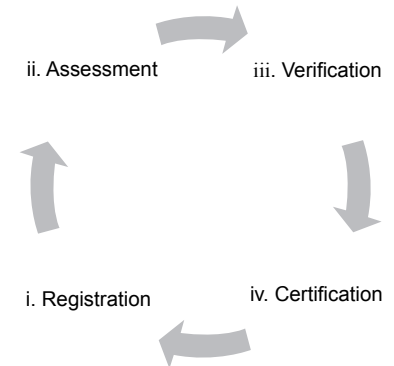
How can the Department of Skills Development (DSD) help you?

DSD will identify your skills and knowledge based on the experience that you have gained.

Who ought to apply?

Anybody who has skills and knowledge gained from work experience, formal or informal training and life experience can register for RPA.

The Process of Accreditation



When can I apply?

Anytime if you have the skills and knowledge.

For enquiry, please contact:

Department of Skills Development (DSD)
 Ministry of Human Resources,
 Level 7-8, Block D4, Complex D,
 Pusat Pentadbiran Kerajaan Persekutuan,
 62530 Putrajaya
 Tel: 03-8886 5589 ext 5498/5502/5520/2312
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 Website: www.dsd.gov.my



..... Continue National Dual Training System

- To enhance the Company’s reputation (social responsibility); and
- To contribute to the corporate culture of the Company.

NDTS – Benefits For Employers

Positive return on investment

- Increased productivity; and
- Increased quality of work – apprentices fulfill tasks for the first time correctly.

Benefits of training

- Increased staff retention; and
- More efficient use of new technology – high-tech driven companies will benefit from young people exposed to new technology.

Reduced costs by:

- Improved productivity;
- Low allowances reducing payroll costs;
- Government funding – institutional training; and
- Reimbursement (PSMB) or Tax deduction (LHDN).

Reduced hiring costs by

- Less advertising for new workers;
- Less interview and testing costs; and
- Less costs entailing wrong hiring decisions.

Summary

Participation in the NDTS is an appropriate decision for every enterprise in order to ensure that apprentices are trained to become k-workers for the development of human capital to steer Malaysia to becoming a developed nation by the year 2020.

With the National Dual Training System in place, Malaysia’s growth is well on its way towards establishing an industry-driven skilled workforce development approach. The opportunity to be a part of the NDTS not only enhances corporate performances, but also represents a commitment to investment in human resources.

All companies and business enterprises are welcomed to participate and implement the NDTS. The system is established for the companies’ interest and benefit.

The Department of Skills Development, as the coordinating body, will provide all assistance necessary to ensure that interested companies can participate in the system.

Further Information

For further information, please contact or visit DSD at:

Putrajaya Office

Department of Skills Development
 Ministry of Human Resources,
 Aras 7 & 8, Blok D4, Kompleks D,
 Pusat Pentadbiran Kerajaan Persekutuan,
 62530 Putrajaya, Malaysia.
 Tel: +603-8886 5000 Fax: +603-8889 2423
 Email: jpk@mohr.gov.my
 Website: www.dsd.gov.my

Cyberjaya Office

Department of Skills Development
 Ministry of Human Resources,
 Blok 4803, Suite 0-10,
 Bangunan CBD Perdana,
 Off Persiaran Flora,
 63000 Cyberjaya, Selangor Darul Ehsan.
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Email : kemy.sales@khindmistril.com



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National Occupational Skills Standard (NOSS)

National Occupational Skills Standard (NOSS) is defined as a specification of competencies expected of a skilled worker who is gainfully employed in Malaysia for an occupational area, level and pathway to achieve the competencies. It was developed together with industrial experts in line with the provisions under the National Skills Development Act 2006 (Act 652).

The NOSS provides opportunities to the community and industry to access the services offered by the Department of Skills Development (DSD) and other related agencies such as:

- Malaysian Skills Certification through Accreditation System, National Dual Training System (NDTS), Recognition of Prior Achievement (RPA)
- Recognition of National Industry Expert
- Development of training curriculum

Benefits of NOSS

FOR EMPLOYERS:

- Guidance for preparing job specifications
- Enhances quality, productivity, innovation and competitiveness
- Gives better returns to investment in training
- Reduces cost of retraining
- Enhances workers' understanding by providing a clear picture of their area of work
- Determines the criteria for appraisal of workers

FOR WORKERS:

- Be aware of the competencies that they must have to succeed in their careers
- Make more appropriate decisions on training required to enhance future careers
- Embark on their tasks more easily because of clarity of their role
- Attain a higher level of performance and contribute to the success of the company

FOR INSTRUCTORS:

- Obtain a clear understanding of the skills that workers must possess
- Develop curriculums and training programmes that are precise, suitable and meet current market needs
- Provide useful career advice to trainees

- Update training programmes to meet the changing needs of the industry.

Industrial sectors

The various industrial sectors covered by NOSS are:

- Electrical & Electronic, Telecommunication & Broadcasting Industry
- Information & Communication Technology (ICT)
- Machinery & Equipment
- Mechanical & Electrical Service & Maintenance
- Transportation
- Materials
- Packaging
- Printing
- Chemistry
- Medical & Pharmaceuticals
- Hospitality & Tourism
- Souvenir & Small Enterprises
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- Textile & Apparel
- Agriculture & Agrobased Industry
- Resource Based Industry
- Biotechnology
- Education & Training Services
- Oil & Gas
- Halal Industry
- Integrated Logistic Services Industry
- Distribution Trade
- Defense & Security Services
- Care & Community Services
- Art & Culture
- Mining Industry

Definition of competency level & certification

Malaysia Skills Certificate: Level 1

Competent in performing a range of varied work activities, most of which are routine and predictable.

Malaysia Skills Certificate: Level 2

Competent in performing a significant range of varied work activities, performed in a

variety of contexts. Some of the activities are non-routine and require individual responsibility and autonomy.

Malaysia Skills Certificate: Level 3

Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non-routine. There are considerable responsibilities and autonomy, with control or guidance of others often required.

Malaysia Skills Diploma: Level 4

Competent in performing a broad range of complex technical or professional work activities performed in a wide variety of contexts with a substantial degree of personal responsibility and autonomy. Responsibility for the work of others and allocation of resources are often required. Higher level of technical skills should be demonstrated.

Malaysia Skills Advanced Diploma: Level 5

Competent in applying a significant range of fundamental principles and complex techniques across a wide variety of contexts which are often unpredictable. Very substantial personal autonomy and often significant responsibility for the works of others and on the allocation of substantial resources, as well as personal accountabilities for analysis, diagnosis, planning, execution and evaluation. Specialisation in technical skills should be demonstrated.

How to get NOSS?

NOSS can be purchased from any DSD offices.

For enquiry, please contact:

Putrajaya Office

Department of Skills Development
Ministry of Human Resources
Aras 7 & 8, Blok D4, Kompleks D,
Pusat Pentadbiran Kerajaan Persekutuan,
62530 Putrajaya, Malaysia.
Tel: +603-8886 5000
Fax: +603-8889 2423
Email: jpk@mohr.gov.my
Website: www.dsd.gov.my

Cyberjaya Office

Department of Skills Development
Ministry of Human Resources
Blok 4803, Suite 0-10,
Bangunan CBD Perdana,
Off Persiaran Flora,
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Fax : +65 6233 6768
Email : violet@iemallworld.com

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The Year of the Water Snake

4th February 2013 to 3rd February 2014

The Year of the Water Snake corresponds to the sixth earthly branch and the tenth heavenly stem, which symbolizes action, energy, leadership and vitality.

For the purpose of astronomy, chronology as well as astrology, the early Chinese had invented a system named 'Tian Gan Di Zhi' (comprising 10 heavenly stems and 12 earthly branches). The 10 heavenly stems refer to the Yin-Yang principle and the elements of wood, fire, earth, metal and water; while the 12 earthly branches are made up of the now familiar 12 zodiac animals.

According to the Chinese Zodiac, the Year of the Water Snake begins on 4 February 2013 and ends on 3 February 2014. Ancient Chinese wisdom says a Snake in the house is a good omen because it means that your family will not starve. People born in the Year of the Snake are keen and cunning, quite intelligent, wise and resilient. They are great mediators and good at doing business, even in times of adversities.

Ancient Legends

Since time immemorial, the snake has rooted itself as a significant part of human civilization worldwide. The ancient Chinese, for instance, had credited the creation of the world and mankind to a goddess named 'Nu Wa', who took a human form with her lower limbs replaced by a snake body. The mystical Chinese dragon is also supposed to be evolved from the snake. The legendary story of the White Snake (which can manifest itself in the form of a kind-hearted lovely lady) who sacrifices herself in the name of love, is as touching as the romance between Romeo and Juliet.

In other parts of the world, such as ancient Africa and Egypt, the snake is deemed supreme and at times royal. By and large, the snakes are generally most respected in India, then and now. The godly status of the snake in Hinduism has been long established, while the story of Buddha who sought eternal wisdom while meditate for weeks under a tree in the shade of a giant cobra is an essential episode in any movie depicting the life story of Buddha. Even in Malaysia which has a deep-rooted historical linkage with India, such divine legacy can



still be found in the famous Snake Temple in Penang today.

Negative Perceptions

Barring these ancient folklores and beliefs, however, the snake or serpent is more often than not given negative connotations, as exemplified by the first bites of the forbidden apple by Adam and Eve, with the abetment from Satan who took the form of a snake. Such biasness is also manifested in many Chinese sayings or proverbs. For instance, a person who befriends two rival camps for his own gain is called a '2-headed snake'. A group of people involving in undesirable or criminal activities is described as 'a nest of snakes and rodents'. Any sweet-talker with hideous objective is known as someone having a 'Buddha mouth with a snake heart'. Last but not least, a devilish person is best described as 'as poisonous as snake or scorpion'.

General Forecast

According to Hong Kong's famous fengshui master Su Ming Feng, who was invited to Kuala Lumpur by China Press and Nanyang Siang Pau to give an annual forecast for the Year of the Snake not long ago, 2013 is expected to see more earthquakes in the southwest sector (inclusive of Malaysia), after a 9-year lapse since the Sumatra Tsunami in 2004.

However, he said Hong Kong and Malaysia are both located far from the ring of fire, and thus will only be mildly affected.

He foresaw steady property appreciation in both Malaysia and Indonesia in the coming years, and encouraged more people to invest in this sector which will bring hefty gain in the next twenty years.

For the Snake people who are expected to experience tremendous hardship as they are at loggerhead with the unfriendly 'Tai Sui', he advised them to take it easy such as by way of holiday to vent off the negative emotion.

Economic Outlook

Meanwhile, the founder of the Malaysian Divination Society, Master Xu Yi Zi, forecasted similar economic trend for Malaysia as well as the world at large, including China, Japan and

Korea. For the local stock market, there will be downslides after the 3rd and 4th lunar months, before stabilizing in the 6th month and peaking towards the end of the year. However, he expected adversities in Europe, including the dissolution of the European Union at the end of the year.

The president of the Malaysian Divination Society Master Zhu Shu Ling foresaw exceptional positive development for businesses and industries associated with the 'Wood' element which is nourished by the 'Water' element. Those benefited from this relationship include health foods, poultry farming, print media, mass media, education, cultural and religious activities, accountancy, etc. However, 'Earth' related businesses such as property development, civil engineering and agriculture are likely to experience difficulties as the 'Earth' element is contradictory to the 'Water' element which is in command in the Year of the Water Snake.



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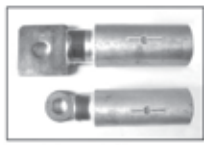
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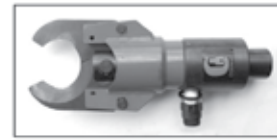
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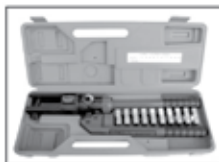
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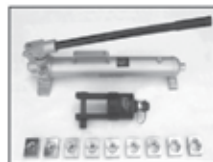
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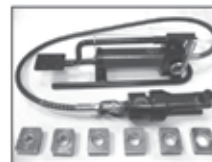
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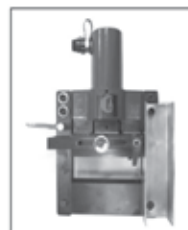
*CH-240
Indent Tool*



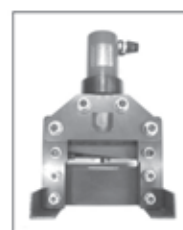
*CH-630
Indent Tool*



*CP-1000
Crimping Head*



*BB-150
Bar Bender*



*BC-150
Bar Cutter*



*CH-60
Hole Puncher*



*PM-1000
Electric Pump*

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Remarks : FC-Inside Front Cover, IBC-Inside Back Cover, OBC-Outside Back Cover, CF-Centre Fold.

..... Continue The Year of the Water Snake

Snakes in its Elements

According to the Five Elements Theory long established by the ancient Chinese, anything in the universe is associated and founded by the '5 elements', be it physical being or mental creation. Therefore, the characteristics of the Snake people are also tempered by these five elements, namely: Metal, Water, Wood, Fire and Earth.

The Metal Snake (born in 1941 & 2001)

Metal Snakes are extremely willful individuals who will stop at nothing to achieve their goals. These people will have their guards up 24-hours a day in order to protect themselves from any failure or possibility of it. They place a great deal of importance on money, but are more concerned with the possessions their finances can bring them. They are in and out so sharply and so silently that they are often unheard and unseen. You must be careful with these Snakes because, although they can be generous, they are always out for number one.

The Water Snake (born in 1953 & 2013)

Water Snakes are influential and insightful. They manage others well and tend to be good for organizations to utilize as staff. They

are quite motivated and intellectual, very determined and resolute about success.

They will have what they desire despite the outcome they generate because it is worthwhile for them not only to be recognized for their efforts, but to be rewarded as well. They are affectionate with their families and friends but do not show this side of their personality to colleagues or business partners.

The Wood Snake (born in 1905 & 1965)

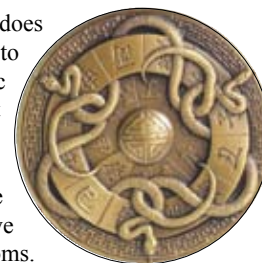
The element of Wood, like in most Animal Signs, gives the Snake a bit of solidity and foundation. Wood Snakes are not as self-preserving as the rest of them, as vanity is not really his style. These Snakes have a stable group of friends and family to hang out with and love each of these people quite deeply.

However, it is rare that the Snake utilizes his group of loved ones for advice or listening, often opting to go at it alone. Kindness and ingenuity are two of this Snake's greatest characteristics.

The Fire Snake (born in 1917 & 1977)

Fire Snakes can be a bit loud, speaking their minds and smothering you with their

opinions. This does add a twist to his dynamic and vibrant character, as he is quite extrovert. These Snakes have great wisdoms.



They are intriguing communicators who leave you breathless after a conversation.

Fire Snakes can change even the most obstinate mind with their powers of persuasion, convincing you their opinions or ideas are better than yours. This does make them a little self-centered, but you can't say they aren't driven for success.

The Earth Snake (born in 1929 & 1989)

Earth Snakes are the most relaxed of the breeds. They lead calm lives and offer a down-to-earth appeal to any conversation or outing. This may make them seem friendlier, as you may not feel the need to wonder what he has got up his sleeve. They may also shun the need to lash out or take risks, but it isn't from paranoia. They figure their good sense and work ethic will pay off and bring them much fortune and material satisfaction.



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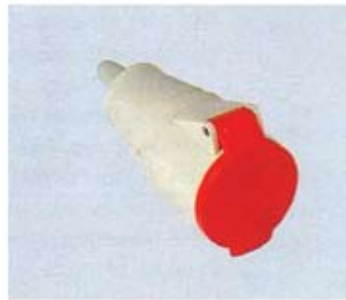
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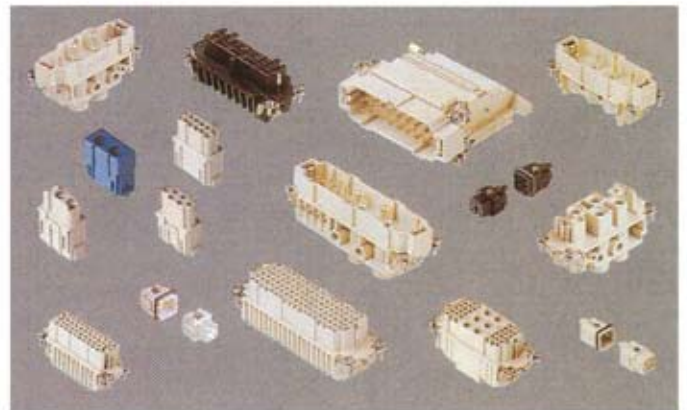
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