



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

CIC SNAPSHOTS

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As part of its commitment to promote the interests of the construction industry in Hong Kong, the Construction Industry Council (CIC) publishes *CIC Snapshots* every two months to provide industry stakeholders with regular updates on the CIC's ongoing activities and the strategic issues .

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CIC Task Force on Short-term Labour Supply

With 10 major infrastructure and various large-scale projects coming to a peak, the level of activity in the construction industry is expected to remain high in the next few years. To meet the manpower needs of various upcoming projects, the local construction industry will need approximately an extra 10,000 or more skilled workers in the short-term.

Training local talent and attracting young newcomers to the construction industry are the priorities of the Construction Industry Council (CIC) in meeting the demand for manpower in the long run. In the face of a serious shortage of manpower, the CIC established the Task Force on Short-term Labour Supply in January 2014 with members comprising representatives from employers and trade unions of the construction industry and those from the CIC, the Development Bureau and the Hong Kong Housing Authority in order to attain a full picture of the short-term employment of various trades in the local construction industry.

Table I: 26 Trades facing labour shortage

| Civil and Building (applicable for both tunnel and non-tunnel works) | |
|----------------------------------------------------------------------|--|
| 1. Bar Bender and Fixer | |
| 2. Carpenter | |
| 3. Concretor | |
| 4. Rigger / Metal Formwork Erector | |
| 5. General Welder | |
| 6. Leveller | |
| 7. Plasterer | |
| 8. Bricklayer | |
| 9. Metal Scaffolder | |
| 10. Metal Worker | |
| 11. Structural Steel Welder | |
| 12. Painter and Decorator | |
| 13. Curtain Wall Installer | |
| 14. Structural Steel Erector | |

The task force stressed that on the condition of it not affecting the employment of local workers, nor reducing their wages or impacting their interests, it is recommended to optimise the existing Supplementary Labour Scheme (SLS) for the timely importation of skilled workers for public works in order to alleviate labor shortages in the short-term.

After thorough deliberation and reference to manpower forecasting research, human resources surveys and market data, and taking into account the views of all parties, the task force identified 26 trades facing a shortage of labour (Table I) and their respective mean wage by benchmarking the market price. This information was submitted to the Labour Advisory Board (LAB) for discussion in March 2014. The task force hopes that the recommended SLS optimisation may provide an initial reference for LAB so that the processing time could be reduced to less than six months.

To reflect the latest manpower situation in the construction industry, the task force will regularly review the list of jobs facing shortages of labour and their respective wages.

| E&M (applicable for both tunnel and non-tunnel works) | |
|--------------------------------------------------------------------------|--|
| 15. Escalator Mechanic | |
| 16. Lift Mechanic | |
| 17. Plumber | |
| 18. Fire Service Mechanical Fitter | |
| 19. Fire Service Electrical Fitter | |
| 20. Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System) | |
| 21. Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) | |
| Civil and Building (applicable for tunnel works) | |
| 22. Tunnel Worker | |
| 23. Compressed Air Worker | |
| 24. Plant and Equipment Operator (Tunnelling) – Tunnel Boring Machine | |
| 25. Trackworker | |
| 26. Shotfirer | |



The CIC's Standing Committees Re-structured

To respond to the changing needs of the industry and to enhance their effectiveness, the CIC has re-structured the following committees, which work closely with industry stakeholders, with effect from 1 February 2014:

Committee on Construction Safety

As safety issues in relation to construction work are not confined to construction sites, the “Committee on Construction Site Safety” has been renamed “Committee on Construction Safety” with the following new terms of reference:

- To review and monitor safety performance of the construction industry.
- To review and enhance the mechanism of safety management.
- To identify and recommend measures for improving safety performance to the CIC.
- To promote the adoption of the improvement measures by the industry.
- To nurture a safety culture for the industry.

Committee on Environment, Innovation and Technology

The CIC considers that more emphasis should be put on the development of future technology and construction innovation for the sustainability of the industry. To reflect this, the “Committee on Environment and Technology” has been renamed the “Committee on Environment, Innovation and Technology” with the following new terms of reference:

- To promote environmental protection and sustainable development in the construction industry.
- To promote good practices in relation to sustainable construction.
- To enhance innovation in the construction industry to increase productivity and competitiveness.
- To encourage the use of innovative techniques for the construction industry.
- To advise on the strategy for development of construction standards.

Committee on Procurement and Subcontracting

To avoid duplicated efforts by the “Committee on Procurement” and the “Committee on Subcontracting”, the two have been merged to form the “Committee on Procurement and Subcontracting” with the following terms of reference:

- To examine current practices on procurement in relation to project planning, tendering, contract administration and site supervision and recommend good practices to improve the quality and cost effectiveness in delivery of construction contracts.
- To operate and develop the Subcontractor Registration Scheme (SRS).
- To raise the professional standard of subcontractors through providing value-added services under the SRS.
- To examine current arrangements for selection and management of subcontractors and recommend improvements.
- To promote the use of written subcontracts.
- To promote good practices relating to dispute resolution.

Committee on Productivity and Research

Following on from the success of last year's "CIC Conference" and its theme of "Construction Innovation: Productivity and Technology" the CIC has decided to set up a new committee focused on these issues named the "Committee on Productivity and Research" with the following terms of reference:

- To compile and update key performance indicators.
- To examine current productivity levels in the Hong Kong construction industry by introducing

measurable indicators for different work trades.

- To benchmark or set standards for the productivity of construction processes.
- To provide statistics in relation to productivity.
- To recommend strategies to the Council and Boards / Committees for enhancing the industry's productivity and competitiveness.
- To co-ordinate and promote construction research and development, and facilitate practical application of research results by the construction industry.

Committee on Construction Safety

Promotional Activities for "Construction Safety Week 2014"

Following on from the success of Construction Safety Week 2013, this industry-wide safety promotional

campaign, jointly organised by the Construction Industry Council and the Development Bureau, will return this year from 26 to 29 May 2014.

The programme for "Construction Safety Week 2014" will be:

| | Date | Event |
|-------|------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Day 1 | Monday, 26 May 2014 | Zero Accident Flag Presentation Ceremony |
| Day 2 | Tuesday, 27 May 2014 | Construction Safety Week Conference |
| Day 3 | Wednesday, 28 May 2014 | Construction Safety Week Site Visit |
| Day 4 | Thursday, 29 May 2014 | Construction Safety Week – Award Presentation Ceremony for the 20th Phase of the Considerate Contractors Site Award Scheme |

As of January 2014, more than 17,000 construction workers signed up for the "Joint Declaration" to be designated as a "Safety Pal". Phase two of "Safety Pal" has been launched. In addition to reinforcing the theme of "zero accident", "Construction Safety Week 2014" will highlight initiatives with an emphasis on the health of construction workers. Safety-related activities have already been held to kick off the campaign.

Brainstorming Workshop on Construction Safety

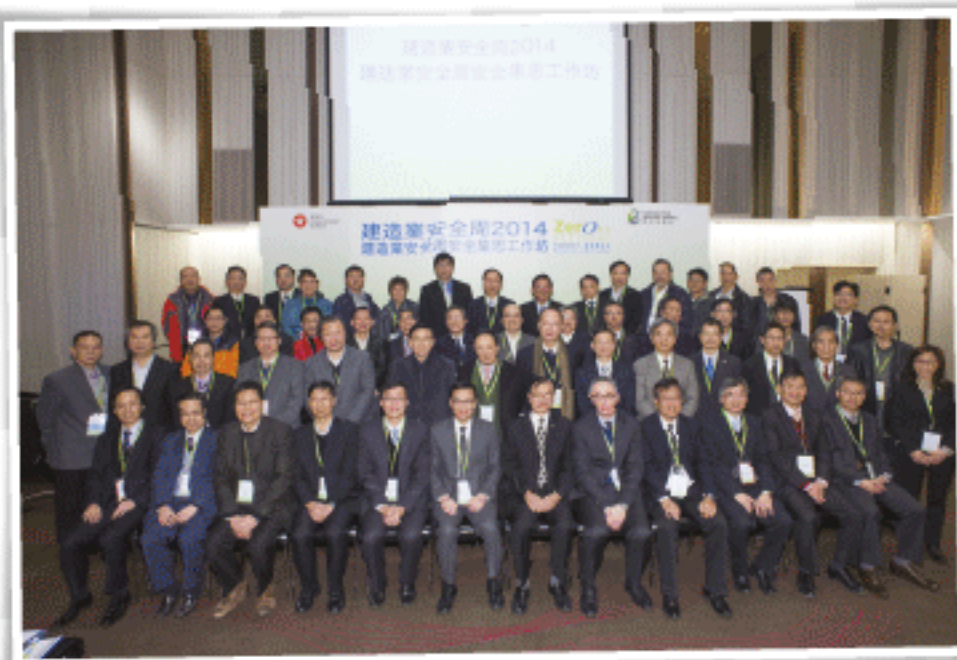
The "Construction Safety Brainstorming Workshop", held on 21 January 2014, aimed to solicit contributions from major industry stakeholders to further enhance safety practices in Hong Kong's construction industry.

To work towards achieving the goal of "zero accident", key construction industry stakeholders reviewed the

existing safety management system as well as explored ways for further improvement through group discussions. Co-chaired by Ir WAI Chi-sing, Permanent Secretary for Development (Works), and Mr. LEE Shing-see, Chairman of the CIC, facilitators from each group summarised their views at the

round-up session and put forward suggestions for further consideration.

Subject to further discussion of the findings from the Brainstorming Workshop, the suggested measures may feature in the “Construction Safety Week 2014”.



Key industry stakeholders showed their support of the “Construction Safety Brainstorming Workshop”



(Left) Ir WAI Chi-sing, Permanent Secretary for Development (Works), and Mr. LEE Shing-see, Chairman of the CIC, co-chaired the round-up session



Various topics were discussed during the group session



(Middle) Mr. LEE Shing-see, Chairman of the CIC, and Mr. Christopher TO (1st right), Executive Director of the CIC, joined with Mr. CHOW Luen-kiu (4th right), Chairman of the Hong Kong Construction Industry Employees' General Union and its representatives

Qigong Video to Promote Workers' Health

The main theme for “Construction Safety Week 2014” will be health and safety leadership. The Medical Faculty of the Chinese University of Hong Kong and the Hong Kong Occupational Therapy Association advised that qigong could be conducive to workers' health and suitable to be promoted within the construction environment.



Demonstration of qigong exercises

A demonstration of qigong exercises was filmed at ZCB on 15 February 2014. The video is used for training purposes at “Train-the-Trainer” Sessions, and to promote healthy practices in the construction industry.

“Train-the-Trainer” Sessions

To facilitate the practice of qigong among construction frontline practitioners to enhance their health, five free-of-charge “Train-the-Trainer” Sessions have been organised. More than 600 nominations of suitable staff from 127 companies were received to join these sessions as potential trainers. Nominees were trained up as qigong trainers to provide classes for their frontline staff.



More than 130 participants joined the first session held at ZCB on 8 March 2014

stressing the need for constant vigilance on construction safety, and reflecting that severe accidents can have a profound impact on victims as well as their families. Copies of the DVD are now available at the Construction Industry Resource Centre for free borrowing. Industry stakeholders are encouraged to show the video to their frontline construction practitioners for safety training purposes.

Construction Safety Promotional DVD Available Now

A Construction Safety Promotional Video was produced for the Construction Safety Week last year. Victims shared their real life stories in the video,



Construction Industry Safety Award Scheme 2013/2014

With this year's theme “Take Precautions for Maximum Site Safety”, the Construction Industry Safety Award Scheme Award Presentation Ceremony cum Fun Day was held on 16 March 2014. Jointly organised by the Labour Department, the CIC and other key industry stakeholders, this annual event aims to enhance safety awareness and foster a safety culture in the construction sector.



Ms. Angela YUEN (3rd left), Manager – Council Services of the CIC, was one of the Assessment Team members of the Construction Safety Award Scheme 2013/2014

To encourage the adoption of safe work practices in the industry, the CIC joined together with other organisations to recognise the good occupational safety and health performances of contractors, site personnel and workers. With concerted efforts from the HKSAR Government, the CIC and industry stakeholders, ongoing improvements in safety performance in Hong Kong's construction industry are being seen year after year.

Technical Seminar on Safety of Lift Shaft Works

The CIC organised a Technical Seminar on Safety of Lift Shaft Works (Guidelines on Safety of Lift Shaft Works Volume 3 – Throughout the Occupation Stage of Building) on 12 February 2014 as a briefing session on the Guidelines which were released in November 2013 by the Task Force on Site Safety of Working in Lift Shaft under the Committee on Construction Safety.

The half-day seminar attracted more than 400 participants from various sectors of the Hong Kong construction industry, including government departments, academic institutes and universities, developers, consulting firms and contractors. Seven distinguished speakers presented topics on achieving the goal of safe management of lift shaft works throughout the occupation stage of building by making reference to the provisions as stipulated under the guidelines.

All three volumes of the Guidelines are available on the CIC website <www.hkcic.org> along with presentations from the Technical Seminar.



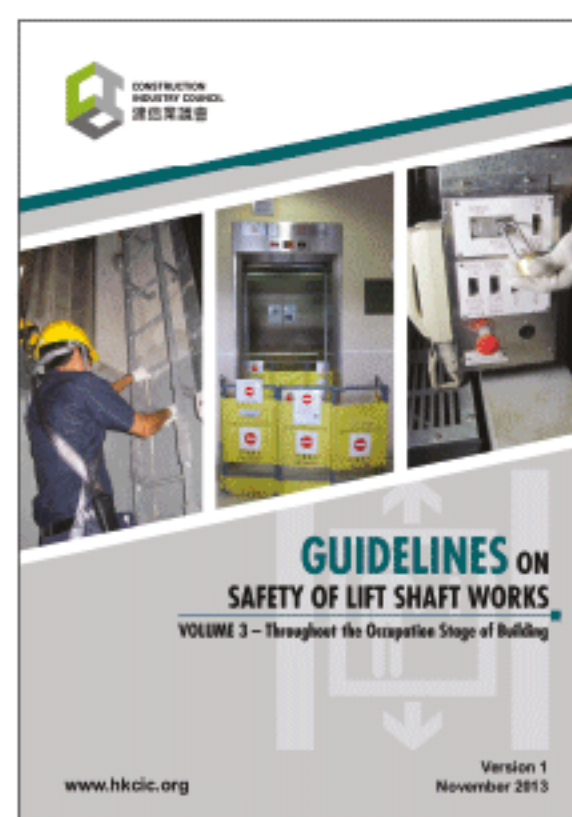
Mr. CHEUNG Hau-wai (6th left), Chairman of the Committee on Construction Safety of the CIC, Ms. Ada FUNG (middle), Chairman of the Task Force on Site Safety of Working in Lift Shaft of the CIC, and Ms. Angela YUEN (3rd left), Manager – Council Services of the CIC, posed with the speakers

Lift Safety Forum 2014

The Hong Kong Housing Authority organised a Lift Safety Forum on 28 February 2014. The Forum, which commenced with the signing of a safety charter, covered safety measures and good practices relating to lift works and lift maintenance safety work practices. Ms. Ada FUNG, Chairman of the Task Force on Site Safety of Working in Lift Shaft of the CIC, and Ms. Angela YUEN, Manager – Council Services of the CIC introduced the Guidelines on Safety of Lift Shaft Works Volume 3 and discussed in details of the Guidelines during the Q&A session.



The CIC participated in the Lift Safety Forum 2014 organised by the Hong Kong Housing Authority



Guidelines on Safety of Lift Shaft Works (Volume 3 – Throughout the Occupation Stage of Building)

Committee on Environment, Innovation and Technology

BIM Year 2014

The Working Group on Roadmap for BIM Implementation of the CIC has received comments on the *Final Draft Report of the Roadmap for BIM Strategic Implementation in Hong Kong's Construction Industry* and is now updating the document with a view to publishing the final version.

As promotion is recommended in the Report as one of the actions for the implementation of BIM in Hong Kong, the CIC will work in collaboration with BIM stakeholders to organise a number of events throughout 2014. The event plan of the BIM Year 2014 is as follows:

| Month | Date | Event |
|-----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January | 14 & 16 January 2014 | Media Exposure: ATV Programme "Money World" TV Interview on BIM with Ir Kevin POOLE and Ms. Ada FUNG <i>BIM Education – Global – Summary Report 2013</i> published by NATSPEC |
| | | |
| February | 14 February 2014 | HKTDC's Education and Careers Expo 2014: "New Technology and Construction Industry – Building Information Modelling" |
| March | 20 March 2014 | "BIM Strategy in Development Projects – A Developer's Perspective" organised by buildingSMART Hong Kong |
| | 21 March 2014 | "BS Short Course 2014: Building Information Modelling (BIM) in Building Services" organised by the Hong Kong Institution of Engineers – Building Services Division, and The Hong Kong Polytechnic University – Department of Building Services Engineering |
| April | 2 April 2014 | HKIPM-HKIBIM Joint Conference: BIM in Project Management |
| | 16 April 2014 | BIM Year 2014 – Grand Launch Ceremony |
| | TBC | CIC Journal (Inaugural Issue) – A key article on BIM |
| May | TBC | Publication: Insights from CIC Conference 2013 on BIM |
| | TBC | Quick Training and Demonstration on BIM |
| June | 8 June 2014 | HKIE Hi-Tech Fiesta 2014 |
| | TBC | BIM Showcase cum Smart BIM Object Design Competition |
| July | TBC | Stakeholders' Updates on their Implementation #1 [Theme: Status Update on the use of BIM; and R&D Needs] |
| August | TBC | Quick Training and Demonstration on BIM |
| | TBC | APEC and ASEAN Third Senior Officials' Meeting (SOM 3) and Related Meetings |
| September | 11 – 12 September 2014 | Hong Kong Client Summit & Workshop [Theme: Implementation Strategy] |
| October | 29 October 2014 | BIM Exhibition Theme Day in HKTDC's Hong Kong International Building and Hardware Fair |
| | TBC | Government BIM Symposium organised by the Building and Construction Authority, Singapore |
| November | TBC | HKIBIM-CIC Conference 2014 cum Stakeholders' Updates on their Implementation #2 [Theme: Users' Feedback on the Use of BIM Software] |
| December | TBC | Forum [Theme: Introduction of Draft Hong Kong Standards for BIM] |
| | TBC | Hong Kong Construction Excellence Award Presentation [One of the Awards is for BIM Excellence] |



Committee on Procurement and Subcontracting

The former Committee on Procurement and Committee on Subcontracting have been merged after the recent re-structuring of the CIC's committees. The new Committee on Procurement and Subcontracting, comprising representatives from across the supply chain, is committed to work in collaboration with industry stakeholders to ensure a healthy development of the procurement and subcontracting system in the construction industry.

The following task forces, special group, working group and management committee will be steered by the Committee on Procurement and Subcontracting:

- Task Force on the Selection of Consultants and Contractors
- Task Force on Competition Law
- Task Force on NEC3 Collaborative Contracts
- Task Force on Employer-Procured Insurance Policies in Construction Contracts
- Special Group on On-Demand Bonds
- Ad Hoc Working Group on Procurement Fact Sheets
- Task Force on Standard Contracts Provisions for Domestic Subcontracts
- Management Committee of Subcontractor Registration Scheme (SRS)
- Task Force on the Adoption of Dispute Resolution Advisor System to the Subcontract
- Working Group on the Review of the Implementation of the Dispute Resolution Mechanism
- Task Force on Enhancements to Subcontractor Registration Scheme



Draft Procurement Alert for On-Demand Performance Bonds in Construction Contracts Prepared

Special Group on On-Demand Bonds was formed and held its first meeting on 19 February 2014. The objective of the Special Group is to deliberate on the issues of on-demand bonds as raised by the Hong Kong Construction Association and to prepare guidance notes, in the form of an alert or the like, and give proposals on any other course of action required for Com-PNS's consideration.

In the meeting, members representing the Hong Kong Construction Association, Hong Kong Construction Sub-Contractors Association, Hong Kong General Building Contractors Association, as well as the Real Estate Developers Association of Hong Kong and other client bodies, government departments, and legal / quantity surveying firms shared their views on the subject.

A Procurement Alert on the Use of On-Demand Performance Bonds in Construction Contracts was also drafted for the Special Group's wider circulation for their organisations' comments. The draft Alert, giving recommendations to a number of good practices relating to the use of on-demand bonds in construction contracts, is intended to serve as a reminder for industry stakeholders to act in a responsible and appropriate manner when implementing on-demand bonds. Upon gathering the comments from Special Group members, the draft Alert will be put forward to the Committee on Procurement and Subcontracting for endorsement.

Standard Contract Provisions for Domestic Subcontracts

The first two rounds of discussions on the “Standard Contract Provisions for Domestic Subcontracts” were completed by the members of the Task Force on Standard Contract Provisions for Domestic Subcontracts during 31 meetings over the past two years. The third round of discussions will begin after a three-month industry consultation period ending on 15 April 2014. The draft Standard Form has been uploaded to the CIC’s website for public access. Before releasing the finalised Standard Form, legal vetting will be adopted.

The principle of this Standard Form would be precise, simple, and leaving all the specific details to be added by the users. This version of Standard Form will be produced in both Chinese and English; and, is targeting to those sizable subcontractors. It was

Recent Seminars on Subcontractors Registration Scheme

Registered subcontractors under the Subcontractors Registration Scheme (SRS) were invited to two seminars pertaining to construction mediation to keep abreast of recent developments within the industry. As part of “Mediation Week in Hong Kong”, “Seminar on Construction Mediation” was held on 24 March 2014, with leading experts sharing their experience and knowledge in areas relating to dispute avoidance measures, theoretical and practical aspects of mediation and providing an update on the proposed security of payment legislation.

planned to produce a simpler version for second tier subcontractors and less sizable subcontractors.

Task Force members’ views on the adoption of Dispute Resolution Advisor System to the subcontract is diverse, especially the extension of the current Dispute Resolution Advisor system adopted in Main Contract (between Employer and Main Contractor) to Subcontract (between Main Contractor and Subcontractor), in particular use of the same Dispute Resolution Advisor (i.e. same person) acting for both the Main Contract and the Subcontract within the same project.

In view of this, the Task Force will explore different system similar to but not a direct extension of the current Dispute Resolution Advisor system adopted in Main Contract to the Subcontract.

On 7 April 2014, a “Briefing Session on the Draft Standard Form of Domestic Sub-contract” was held which focused on the background and key provisions of the draft document prepared by the CIC after industry consultation. Both seminars were well received by industry stakeholders with each attracting more than a hundred delegates representing main contractors and subcontractors.

Committee on Productivity and Research



The first medical examination was successfully carried

Pilot Medical Examination Scheme for Construction Workers

The construction workforce is facing an acute ageing problem. In addition, many of the tasks in construction are physically demanding. Proper medical examinations are therefore important for construction workers to assess their health condition for meeting the job requirements.

In view of this, the Construction Industry Council (CIC) is organising a one-year Pilot Medical Examination Scheme for local construction workers, commencing in March 2014.

out at the construction site of the Fire Service Training School in Sai Kung on 5 March 2014. More than 100 frontline practitioners have joined the scheme to express their interest in this welfare initiative as well as concern for their health condition.

To enhance the welfare benefits of Hong Kong's construction industry and to improve the overall health image of the industry, stakeholders are encouraged to support and participate in the scheme. The application details are available on the CIC website at www.hkcic.org.

Research Funding Applications

In the Research Funding Applications of 2013, 11 research projects have been awarded as follows:

| First Round of 2013 | Second Round of 2013 |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| • A Study of Impact of Building Envelope on Urban Outdoor Thermal Environment | • An Empirical Study of Construction Time Performance of High-rise Private Building Projects in Hong Kong |
| • Feasibility of Delivering High-rise Low Carbon Buildings in Hong Kong | • Cost-benefit-analysis (CBA) for Implementing Green Buildings (GB) Promotion Incentives: with Transaction Costs (TCs) Considerations |
| • Gyroscopic Stabilisers for Construction Cranes and Gondolas | • Development of Ultra-ductile Cementitious Waterproofing Rendering by using Recycled Plastic |
| • Practical Guidelines on Seismic Detailing for Concrete Buildings in Hong Kong | • Electrical and Mechanical Safety in Construction |
| • Recycling Used Timber Formwork into Lightweight, Thermal-insulating Cement-bonded Particleboards | • Labor and Cost Efficient Construction Method for Retrofitting RC Columns with FRP |
| | • Pilot Medical Examination Scheme for Construction Workers |

The latest round of the CIC's research funding application was opened in March 2014. Research institutes are invited to submit their research proposals by May 2014.

In order to enhance the performance of Hong Kong's construction industry, the CIC will publish a Research Journal in the second quarter of 2014 to advocate innovations and share valuable outcomes generated from these CIC's funded research projects.



Mr. Henry PAU, Consultant - Information Technology, introduced the Construction Workers Registration System at the briefing session

Construction Workers Registration Board

Briefing Sessions on Construction Workers Registration System

Five Briefing Sessions on the Construction Workers Registration System held in February and March 2014 at the Construction Industry Resource Centre received an overwhelming response from main contractors, subcontractors, information technology experts, as well as representatives from consultancy firms, trade associations and unions. The Briefing Sessions attracted a total of 650 participants.

Besides soliciting stakeholders' views or concerns, the briefing sessions also aimed to give users a preview of the new features and major changes of the new system in an attempt to provide more comprehensive and personalised services which will enable workers as well as contractors to retrieve and submit attendance records. Views collected at the briefing sessions will be taken into consideration in the development of the new system.

Sub-committee on Registration Matters

To support the amendments to the *Construction Workers Registration Ordinance* proposed by the Development Bureau, the CIC assisted in consolidating the proposed changes to Schedule 1 of the Ordinance, including suggestions on adding new trades, revising names and descriptions of work of some trades and adding registered semi-skilled workers to certain trades.

In addition, as raised by some stakeholders, the CIC has deliberated on the feasibility and agreed in principle to adding three new trades, namely cable jointer (medium voltage), false ceiling worker, and partition (metal frame) worker, to Schedule 1 of the Ordinance. The CIC is now conducting an industry-wide consultation to collect stakeholders' views.

Briefings on Proposed Amendments to Construction Workers Registration Ordinance

Subsequent to the nine briefing sessions organised from September to December last year, the 10th (i.e. final session) was held on 12 March 2014 to help

members of the Hong Kong Federation of Trade Unions to have a clear understanding of the proposed amendments to the *Construction Workers Registration Ordinance*.

Sub-committee to include Senior Worker Assessment

The Terms of Reference of the Sub-committee on Specified Training Courses of the Construction Workers Registration Board of the CIC have been expanded to include discussing and proposing the

registration arrangements for senior workers. The assessment mechanism for senior workers' registration would be developed for discussion at the upcoming Construction Workers Registration Board meeting. The Sub-committee will be renamed the "Sub-committee on Senior Workers Assessment".

Task Force on Outflow of Construction Workers Established

A new task force has been established to investigate, collect and analyse the common causes and reasons

leading to workers leaving the construction industry or remaining on inactive status. The task force will recommend measures to attract these workers with high potential to rejoin the industry.

ZCB

Sponsorship Agreement Signed to Upgrade Outdoor Lighting

ZCB will upgrade its outdoor lighting to reduce electricity consumption while continuing to provide a relaxing leisure place in Kowloon Bay.

With the kind sponsorship of Guangzhou Hailin Electronic Technology Co. Ltd. and its Hong Kong office Raydiant Arc Ltd. the ZCB landscape lighting will be converted to be powered by localised solar panels and solar cells. At the same time, eco-lighting will be added to the roof and facade of ZCB to highlight the architectural outline of ZCB and to showcase the energy efficient lighting.

The Sponsorship Agreement Signing Ceremony was held at ZCB on 27 February 2014. ZCB would like to thank Guangzhou Hailin Electronic Technology Co. Ltd. and Raydiant Arc Ltd. for their generous support.

The Ceremony was attended by Mr. YU Wai-wai, Chairman of Zero Carbon Building Limited, Dr. Guiyi LI, Director of ZCB and a delegation from the sponsor headed by Mr. XING Ruilin, Chairman, Guangzhou Hailin Electronic Technology Co. Ltd., and Ms. Sunita SUJANANI, Director, Raydiant Arc Ltd.



Mr. XING Ruilin (2nd left), Chairman, Guangzhou Hailin Electronic Technology Co. Ltd. and Mr. YU Wai-wai (2nd right), Chairman, Zero Carbon Building Limited signed the Agreement



Cheque presentation following the signing of the Agreement

Sponsorship Deal Signed for New Eco-Home

Integrating green technologies with a healthy lifestyle into modern interior design will be fully demonstrated in the new ZCB Eco-Home thanks to the sponsorship from New World Group Charity Foundation for the "Design and Build of ZCB Eco-Home 2014" project. The new Eco-Home will also feature various interactive exhibits to illustrate to visitors how to reduce their carbon footprint by changing simple daily household habits. Development of the Eco-Home 2014 is part of the evolving process of ZCB in responding to the latest technologies to further promote low carbon lifestyle to the visitors.

A signing ceremony for the sponsorship agreement was held at ZCB in March 2014. ZCB would like to thank New World Group Charity Foundation for its generous sponsorship.



(Left) Mr. Gary CHEN, Executive Director and Joint General Manager, New World Development Company Limited, and Mr. YU Wai-wai, Chairman, Zero Carbon Building Limited signed the agreement



(From left to right) Ms. Maria CHEUNG, General Manager of Corporate Communication, Mr. SITT Nam-hoi, Head of Projects (Hong Kong & Asia) of Project Management and Mr. Gary CHEN, Executive Director and Joint General Manager, all from New World Development Company Limited; Mr. YU Wai-wai, Chairman, Zero Carbon Building Limited, Ms. Salenda LAU, ZCB Board Member, and Mr. Christopher TO, Executive Director of the CIC

ZCB Director Visits UK Environmental Centres

From 3 March to 6 March 2014, Dr. Guiyi LI, Director – ZCB, visited several centres and exhibitions in the UK focused on sustainability as part of a trip organised by UK Trade and Investment to explore opportunities for collaboration.

Dr. LI met with Mr. Lewis BLACKWELL, Executive Director, Strategy and Development of The Building Centre, and both parties agreed to explore further opportunities for collaboration. Some of the Centre's partners are international players and could be potential partners with ZCB in the future.

Ecobuild 2014

Dr. LI had a meeting with Mr. Rob PANNELL, Managing Director of Zero Carbon Hub, and the staff from the Carbon Trust at the Ecobuild 2014. Both organisations are of particular relevance to ZCB.



BRE is currently expanding the coverage of BREEAM to infrastructure projects, which could be of great interest to the construction industry in Hong Kong

The Zero Carbon Hub is interested in using ZCB as one of their case studies. Their extensive research experience with green homes in the UK could be of value to ZCB and the Hong Kong construction industry.

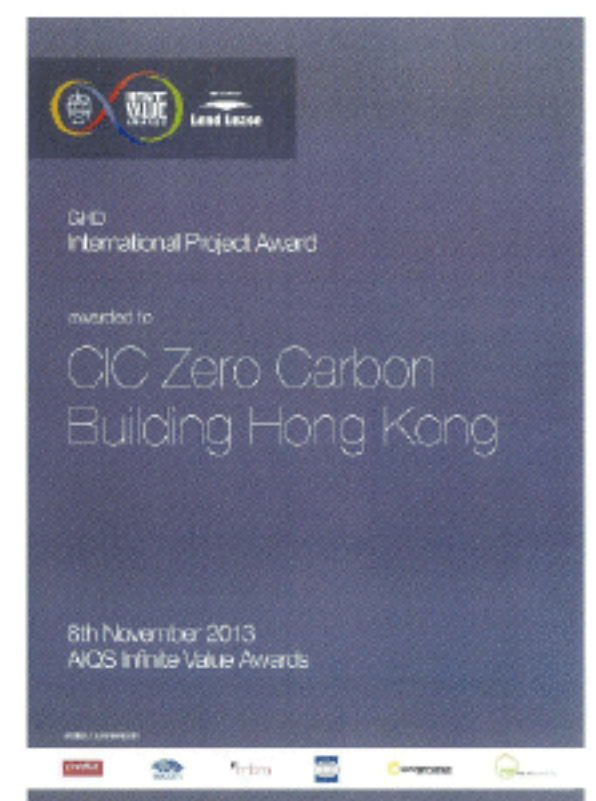
Mr. PANNELL is planning to visit the University of Hong Kong to discuss a CIC research project currently underway. Further discussions on possible future collaboration between the CIC, ZCB and Zero Carbon Hub will be held.

Dr. LI also met with the senior management of BRE Watford. BRE is the developer and owner of the UK green building certification scheme, BREEAM. Most of its financial income derives from the certification, accreditation, testing, training and consultancy covering the following areas: materials, sustainability, energy, water, waste, fire and intelligent buildings. It also provides listing services for fire and security products, energy assessors and BREEAM assessors. Any surplus is then invested back into the research.

BRE is currently expanding the coverage of BREEAM to infrastructure projects, which could be of great interest to the construction industry in Hong Kong.

ZCB Wins Another International Award

ZCB has received further international recognition by winning the GHD International Project Award 2013 from the Australia Institution of Quantity Surveyors.



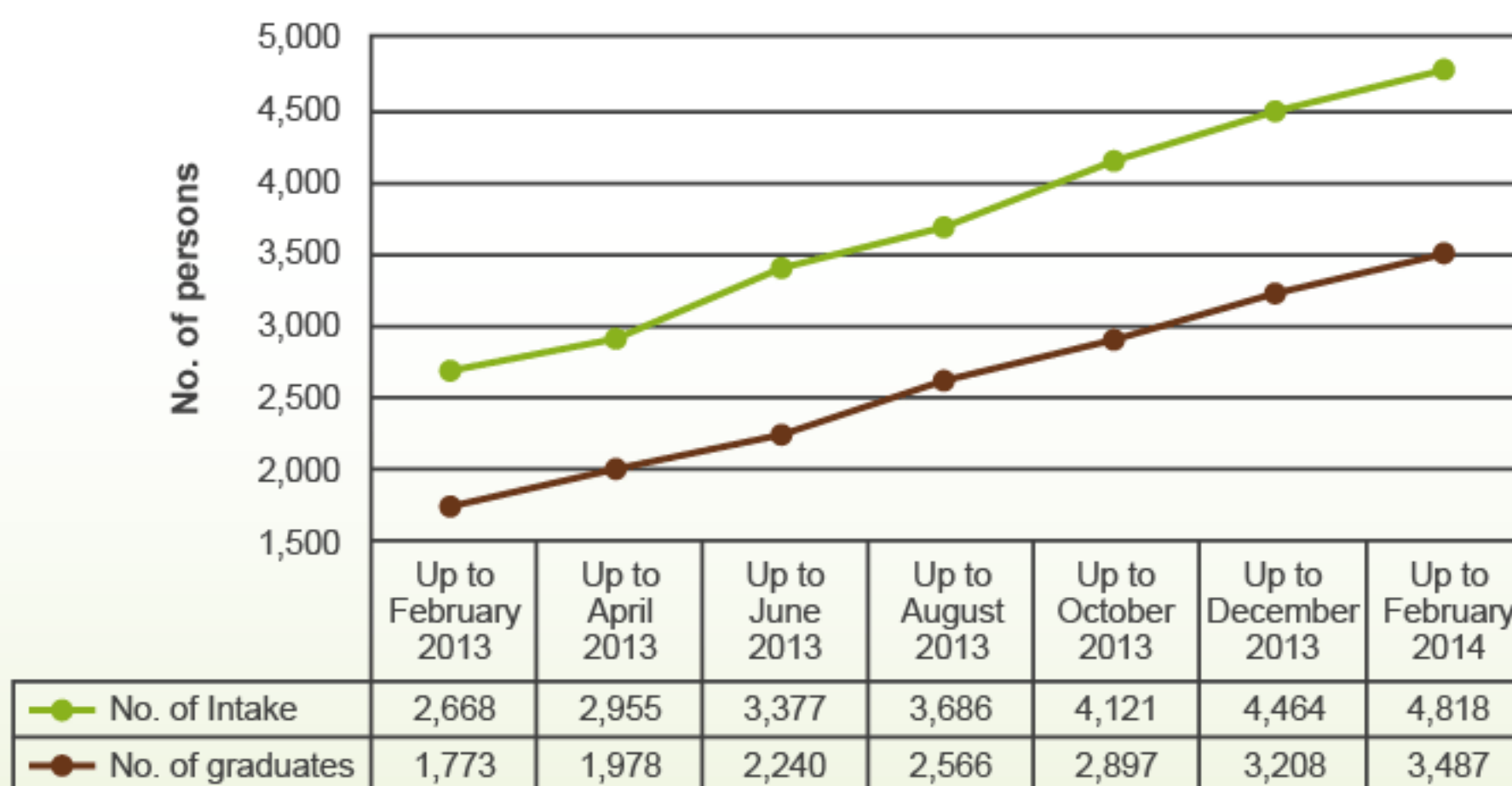
Construction Industry Training Board

In-house Training

Enhanced Construction Manpower Training Scheme ('Build Up')

Apart from regular training courses such as Basic Craft Courses, Construction Supervisor / Technician Programme, and Adult Short Courses, the CIC launched the "Enhanced Construction Manpower Training Scheme" in September 2010. Currently 10 "Enhanced Construction Manpower Training Scheme" courses are provided by the CIC. The following graph shows the accumulated CIC intake and number of graduates under the Build Up Scheme up to the end February 2014.

Intake and Number of Graduates under the Build Up Scheme



Detailed breakdown is as follows:-

| Trade (Build Up Scheme) | Intake up to 28 February 2014 | Number of Graduates |
|--------------------------------|-------------------------------|---------------------|
| Bar-bending & Fixing | 1,898 | 1,294 |
| Timber & Aluminium Formwork | 988 | 708 |
| Metal Formwork & Concreting | 166 | 141 |
| Drainlaying | 66 | 53 |
| Site Surveying | 481 | 351 |
| Surveying and Setting-out | 775 | 597 |
| Metal Works | 199 | 159 |
| Tower Crane Worker's Assistant | 52 | 38 |
| Construction Scaffolding Works | 113 | 96 |
| Welding | 80 | 50 |
| Total | 4,818 | 3,487 |

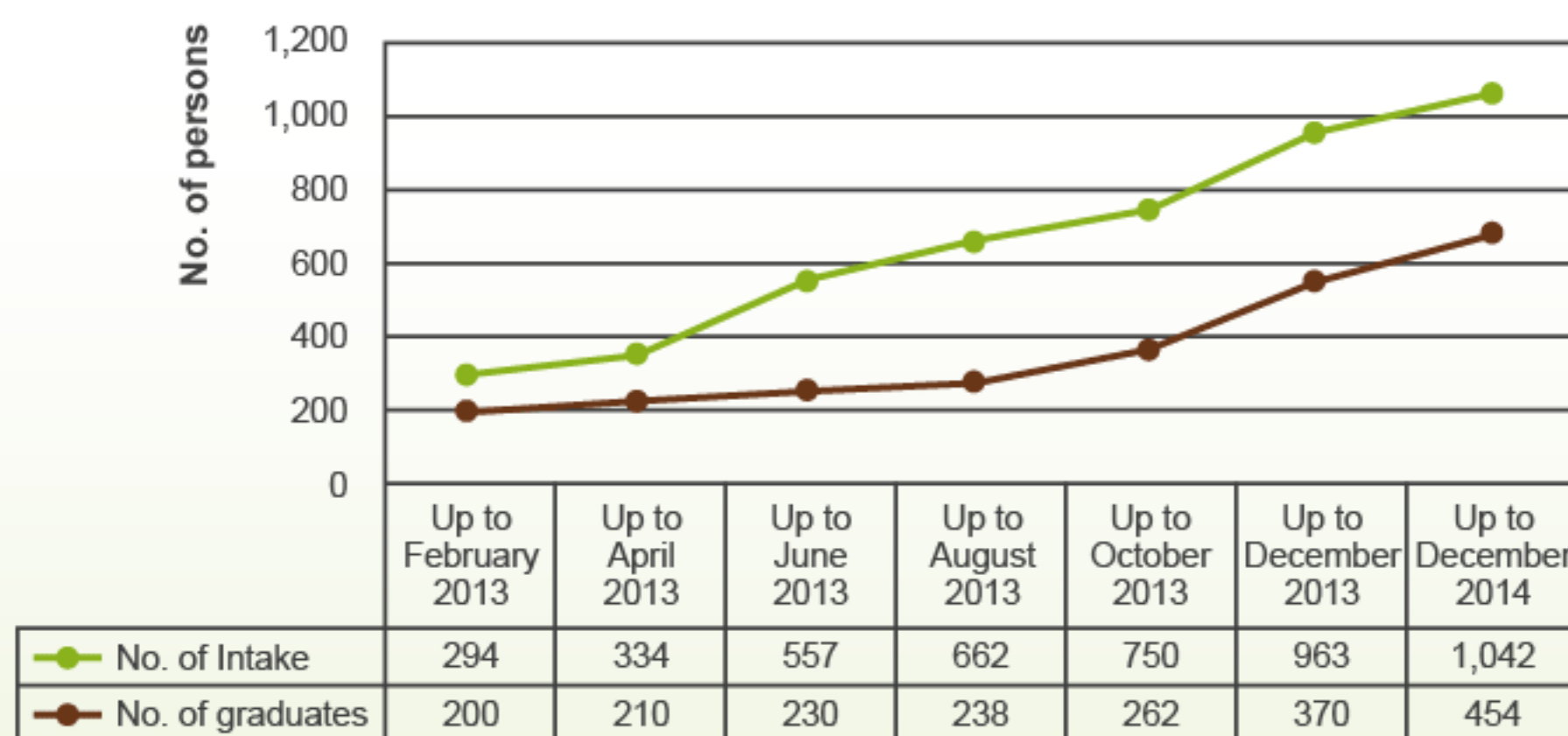
Enhanced Construction Supervisor Training Scheme

The 15-month Certificate in Civil Engineering Supervision Course under the above this scheme commenced in the fourth quarter of 2012. Of the three classes commenced, the first class of 35 trainees has successfully completed the “9+6” training scheme while 38 trainees in total are still receiving the first nine-month classroom training and 29 trainees are undergoing the last six-month on-the-job training. The fourth class will be offered in the second half of March 2014. The first classes of the Certificate in Building Services and the Certificate in Building Construction Supervision Course are scheduled for commencement in April and June 2014 respectively.

Collaborative Training

Various cooperative training schemes were launched in late 2011 to further increase the overall training capacity. The following graph shows the accumulated intake and number of graduates under the Contractor Cooperative Training Scheme, Subcontractor Cooperative Training Scheme and Plumbing Contractor Cooperative Training Scheme by the end of February 2014.

Intake and Number of Graduates under the Collaborative Training Schemes



A detailed breakdown is as follows:-

Contractor Cooperative Training Scheme

| Trade | Intake up to 28 February 2014 | Number of Graduates |
|-----------------------------------------|-------------------------------|---------------------|
| Bar-bending & Fixing | 144 | 53 |
| Timber Formwork | 103 | 84 |
| Surveying and Setting-out | 90 | 55 |
| Crawler Crane Operation | 45 | 45 |
| Ground Investigation Operator Assistant | 32 | 24 |
| Welding | 49 | 28 |
| Site Surveying | 54 | 26 |
| Tunnel Works | 12 | 10 |
| Concreting | 13 | 5 |
| Metal Formwork | 12 | 8 |
| Metal Works | 5 | 4 |
| P.E. Pipe Laying | 28 | 7 |
| Pipe Layer | 24 | 0 |
| PVC Waterproofing | 2 | 349 |
| Total | 613 | 349 |

Subcontractor Cooperative Training Scheme including Plumbing Contractor Cooperative Training Scheme

| Trade | Intake up to 28 February 2014 | Number of Graduates |
|----------------------------------------------|-------------------------------|---------------------|
| Bar-bending & Fixing | 204 | 40 |
| Painting | 40 | 18 |
| Timber Formwork | 53 | 15 |
| Plastering | 3 | 0 |
| Tile Laying | 15 | 6 |
| Concreting | 4 | 3 |
| Marble Polishing | 46 | 23 |
| Tower Crane Erecting & Dismantling Assistant | 36 | 0 |
| Plumbing | 28 | 0 |
| Total | 429 | 105 |

Of the trainees under the Build Up Scheme and the three collaborative schemes, about 80% of them are between the ages of 20 and 44.

Contractor Cooperative Training Scheme for E&M Trades

Under this training scheme, a daily training allowance of \$150 will be offered to attract more people to join the E&M trades which are facing an acute manpower shortage. By the end of February 2014, 26 applications were approved by the CITB providing a total of 245 training places covering eight E&M trades. At present, a total of 36 trainees are undertaking training.

Training Allowance for First Year E&M Students of Diploma in Vocational Education Programme at VTC

To encourage E&M students of the Diploma in Vocational Education Programme offered by the Vocational Training College to join the industry through the provision of a monthly allowance of \$2,800 during their one-year training, the total number of successful student-applicants receiving this allowance by the end of February 2014 was 442. The students will be subsidised to take the Mandatory Basic Safety Training Course (Construction Work) before undergoing the on-site training. In the 2014/2015 year, the number of specified E&M trades to be covered by the scheme will also be increased by one to eight boosting the total training target to more than 680.

Other Activities

On-the-job Training Subsidies for Employers

A subsidy ranging from \$4,000 to \$6,000 per month is given to participating employers of graduates of the “Enhanced Construction Manpower Training Scheme”, “Contractor Cooperative Training Scheme”, “Subcontractor Cooperative Training Scheme”, and “Plumbing Contractor Cooperative Training Scheme”. Subsequent to its recent launch in late 2013, a total of 13 applications have been approved to subsidise 40 trainees to receive on-the-job training in construction scaffolding works, surveying and setting-out, site surveying, marble polishing, and welding.

2014 Hong Kong Youth Skills Competition cum Construction Industry Mega Fun Day

This event is scheduled for 27 – 28 June 2014 at the Kai Tak Cruise Terminal. A wide range of advertising and promotional activities are planned such as craft workshops, Try-out Zone and games stalls. A job fair and recruitment counters will also be set up. In addition, the number of trades for skills competition this year will be increased from the original three to five, namely plumbing, wall and floor tiling, painting and decoration, bricklaying, and joinery. Winners of the skills competition will receive a 12-month intensive training before representing Hong Kong at the “2015 WorldSkills Competition” to be held in Brazil. Main and prominent contractors and suppliers will be approached for sponsorship.

Emails to Promote Employment of Graduates

Starting from August 2013, emails are sent out on a monthly basis to prospective employers including contractors, subcontractors and construction associations announcing the number of CIC graduates available for employment. In the email sent out in early March 2014, the number of graduates of various trades available for interview for the months of March and April 2014 are tabulated below:

| Trade | No. of Graduates Available Immediately for Interview | No. of Graduates Available in the Coming Month for Interview |
|-----------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
| Bar-bending and Fixing | 5 | 80 |
| Metal Works | 0 | 15 |
| Plumbing and Pipe-fitting in Building Construction | 0 | 28 |
| Measurement Technician Assistant | 0 | 18 |
| Site Surveying / Surveying & Setting-out | 8 | 70 |
| Joinery for Building Works | 5 | 12 |
| Repair & Maintenance in Building Works | 2 | 10 |
| Bricklaying and Plastering | 5 | 19 |
| Excavator Operation | 0 | 6 |
| Mobile Crane Operation | 0 | 5 |
| Metal Scaffolding (Civil Engineering and Building Construction) | 5 | 8 |
| Construction Scaffolding | 2 | 0 |
| Painting | 5 | 23 |
| Timber & Aluminium Formwork | 20 | 25 |
| Total | 57 | 319 |

For more information on the employment of our graduates, prospective employers can visit the CIC website: www.hkcic.org/eng/employer/graduates.aspx.

Master Class Distinguished Lecture Series

For the series of master class distinguished lectures scheduled for the first quarter of 2014, two sessions on “Materials and Techniques of Heritage Buildings in Southern China and in Northern China” were successfully held in January and February 2014 respectively. After providing a glimpse of the oriental conservation techniques, the third lecture recently held on 8 March 2014 focused on “Materials and Techniques of Western Conservation”. The concluding lecture on “Chinese and Western Landscape Architecture” was held on 29 March 2014. The lecture series was free and open to all in-service practitioners. For more details of the lecture series and online registration, please visit the CIC website: www.hkcic.org/heritageseries.

Introduction of Three Part-time Courses

To upgrade the technical skills and knowledge of in-service construction practitioners, three part-time skills enhancement courses, namely Mechanical Spraying Plaster and Related Plant Maintenance Course, Preparation of Bar Bending Schedule Course, and Practical Training Course for PE Pipe Installation, will be introduced in the first half of 2014. The fee for the first course will be \$1,400 while the fee for the two other courses will be \$1,800 each.

CIC's Publications

Alerts

- Safety Alert No. 005/13 Excavation Works in the Vicinity of Underground Utilities – Buried Gas Pipes and Cables (December 2013)
- Safety Alert No. 004/13 Safe Use of Lifting Appliances and Lifting Gear (October 2013)
- Safety Alert No. 003/13 Avoid Using Ladders for Working at Height in Repair, Maintenance, Alteration and Addition Works (August 2013)
- Safety Alert No. 002/13 Adoption of Method Statements on Sites (May 2013)
- Procurement Alert No.001/13 Recent Issues of Concern on Tendering of Construction Contracts (May 2013)
- Safety Alert No. 001/13 Safe Use of Mobile Metal Scaffolds for Repair, Maintenance, Alteration and Addition Works (May 2013)
- Safety Alert No. 003/12 Prevention of Electrocution (November 2012)
- Safety Alert No. 002/12 Safety Related Matters of Workers Engaging in Renovation and Repair Works (With The Use of Volatile Organic Compounds) in Commercial Premises (November 2012)
- Safety Alert No. 001/12 Water Pipe Laying Works – Pressure Test (Road Works) (August 2012)
- Safety Alert No. 001/11 Fabrication of Reinforcement Cages of Bored Piles (Updated in February 2013)

Guidelines*

Construction Site Safety

- Guidelines on Safety of Lift Shaft Works: Volume 3 – Throughout the Occupation Stage of Building (November 2013)
- Guidelines on Fabrication of Reinforcement Cages of Bored Piles (Version 1 - July 2013)
- Guidelines on Site Safety Measures for Working in Hot Weather (Version 2 - April 2013)
- Guidelines on the Adoption of the Pay For Safety Scheme (December 2012)
- Guidelines on Safety of Lift Shaft Works: Volume 2 - During Lift Installation Stage until Issue of Occupation Permit and Handing Over to Developer (January 2012)
- Guidelines on Handling Construction Work Injury and Fatal Accident Cases (July 2011)
- Technical Guidelines on the Design, Installation & Maintenance of Cast-in Anchors at External Walls of New Buildings (July 2011)
- Guidelines on Safety of Lift Shaft Works: Volume 1 - During Construction Stage and Before Handing Over to Lift Installation Contractor (July 2010)
- Guidelines on Safety of Tower Cranes (Version 2 - July 2010)
- Guidelines on Administration Charges for Reporting of Site Accidents (August 2008)
- Guidelines on Safety of Site Vehicles and Mobile Plant (June 2008)
- Guidelines on Site Safety Measures for Working in Hot Weather (June 2008)

Environment and Technology

- Guidelines on Trip Ticket System for Disposal of Construction & Demolition Materials in Private Sector Works (May 2011)

Procurement

- Guidelines on Contract Price Fluctuation System (December 2011)
- Guidelines on Partnering (August 2010)

Subcontracting

- Guidelines on Measures for Protection of Workers' Wages (Version 2 - March 2013)
 - Specimen Employment Contract (Extracted from the Guidelines on Measures for Protection of Workers' Wages, Version 2)
- Guidelines on Dispute Resolution (September 2010)

*Definition of Guidelines

Before September 2012: Guidelines are intended to guide industry participants to adopt new standards, methodologies or practices. The CIC strongly recommends the adoption of these Guidelines by industry stakeholders where appropriate.

After September 2012: The CIC expects all industry participants to adopt the recommendations set out in such Guidelines and to adhere to such standards or procedures therein at all times. Industry participants are expected to be able to justify any course of action that deviates from those recommendations.

Reference Materials

- Reference Materials for Application of Dispute Resolution in Construction Contracts (January 2013)

Reports

- Final Draft Report of the Roadmap for BIM Strategic Implementation in Hong Kong's Construction Industry (September 2013)
- Research on River Sand Substitutes for Concrete Production and Cement Sand Mortar Production (Phase One) Final Report (April 2013)
- Study Report - Research on Adhesion Technologies for External Wall Tiles and Rendering (January 2013)
- Demand and Supply Forecast of Hong Kong Construction Workforce for 2012 to 2016 (September 2012)
- Status Report - Update on the Review of Local Construction Standards 2012 (June 2012)
- Summary Report on Review of Local Construction Standards (2010)

Fact Sheets

- BIM: Fact Sheet No. 001/13 Strategic Implementation of Building Information Modelling (BIM) in Hong Kong's Construction Industry (May 2013)
- Procurement Fact Sheet No. 001/13 The Competition Ordinance (April 2013)

Educational Materials

- Liberal Studies: Hong Kong Construction Industry Information Kit (October 2013)



CIC's publications are available for download from the CIC website via the below hyperlink:
<http://www.hkcic.org/eng/info/publication.aspx?langType=1033&id=4458>



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