WSH in the construction sector
SCAL WSH Sub-committee and Work Groups
SCAL WSH Work Plan
  ◦ Three-prong approach
    • Leadership
    • Training
    • WSH Practices
Conclusion
Workplace injury rate by industry (2007-2016)

Workplace fatal injury rate (2007-2016)

Figure 3: Workplace fatal injury rate, 2007-2016

Workplace fatal injury rate for construction sector (2007-2016)

Figure 9: Workplace fatal injury rate for Construction sector, 2007-2016

**Objective**
To promote safety awareness and cultivate safe working habits among construction workers

**Chairman**
Mr Lee Kay Chai
Lian Soon Construction Pte Ltd

**Members**
Mr Chia Keng Wah
Penta Ocean Construction Co. Ltd
Mr Thomas Fong
Soletanche-Bachy Singapore Pte Ltd
Mr Henry Ho Koon Tuang
Sembcorp Design and Construction Pte Ltd
Dr Ho Nyok Yong
Samwoh Corporation Pte Ltd
Mr Howard How
Boustead Projects
Mr Andrew Khng
Tiong Seng Contractors (Pte) Ltd

*con’t*
SCAL WSH Sub-committee

Members (con’t)

Mr Lee Yan Shyong  Sato Kogyo (S) Pte Ltd
Mr Loh Yeow Leng  SC2 Pte Ltd
Mr Allan Low  Teambuild Engineering & Construction Pte Ltd
Mr S T Moorthy  Sanchoon Builders Pte Ltd
Mr P. Muthukumar  Straits Construction Singapore Pte Ltd
Mr Ong Yong Seng  Shimizu Corporation
Ms Png Mui Kee  Sembcorp Design and Construction Pte Ltd
Mr Rong Jing Xiang  Woh Hup (Pte) Ltd
Mr Richard Tan  SCAL Academy Pte Ltd
Mr Tay Ban Hong  Lum Chang Building Contractors Pte Ltd
Mr Yeo Kim Hock  Gammon Construction
<table>
<thead>
<tr>
<th>Work Group</th>
<th>Lead/Co-lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCAL WSH Annual Workplan Work Group</td>
<td>Mr Ong Yong Seng</td>
</tr>
<tr>
<td></td>
<td>Mr Allan Low</td>
</tr>
<tr>
<td>Safety Time-Out Work Group</td>
<td>Mr Lee Yan Shyong</td>
</tr>
<tr>
<td>Safety Induction Training Work Group</td>
<td>Mr Richard Tan</td>
</tr>
<tr>
<td></td>
<td>Mr Loh Yeow Leng</td>
</tr>
<tr>
<td>Analysis of Accidents Statistics Work Group</td>
<td>Mr Howard How</td>
</tr>
<tr>
<td></td>
<td>Mr Loh Yeow Leng</td>
</tr>
<tr>
<td>SCAL Mozzie Wipe-Out Work Group</td>
<td>Mr Andrew Khng</td>
</tr>
<tr>
<td></td>
<td>Mr Loh Yeow Leng</td>
</tr>
</tbody>
</table>
External Representations on WSH

**WSHC Construction & Landscape Committee**

**WSHC Engagement and Outreach Committee**

**WSHC Industrial Capability Building Committee**

**WSHC National Crane Safety Taskforce**

**WSHC National Work-at-Heights Taskforce**

**WSHC Safe Use of Mobile Elevating Work Platforms**

**WSHC Review of Construction Regulations WG**

**CP99: Code of Practice for Industrial Noise Control**

**SAC Working Group for Accreditation of Auditing Organisations**

**SCAL Representatives**

Mr Kenneth Loo
Mr Lee Kay Chai
Dr Ho Nyok Yong

Mr Lam Kong Hong
Mr Loh Yeow Leng

Mr Yeo Kim Hock

Mr Rong Jing Xiang

Mr Howard How

Mr Ong Yong Seng

Mr Thomas Fong
Ms Png Mui Kee
Mr Loh Yeow Leng
SCAL WSH Work Plan

Three-prong approach to WSH

1. Leadership
2. Training
3. WSH Practices
1. Leadership

*Top management*

- Participate and be involved in safety activities on site
- Inculcate safety mindset of every employee in the company
- Establish effective safety communication at all levels within the organisation
1. Leadership

a) Top management to conduct joint site inspections with subcontractors’ management

- Key message at SCAL Annual Safety and Health Promotion Month (Jun 2016 and 2017) for top management involvement
- Call for CEOs to personally conduct safety awareness activities at their worksites
- 26 companies participated, covering 70 worksites in 2016
1. Leadership

b) Top management attend risk management workshops & refresher courses

- 30 classes have been conducted for 295 participants in 2016
1. Leadership

c) Facilitate project management teams to conduct inter-site visits at fixed intervals

- 3 site visits conducted in 2016 with total of about 55 participants
- Key learning points
  - Safety procedures and processes onsite
  - Housekeeping and safe practices
  - New construction methods that enhance safety
  - Managing tension of the safety manager
1. Leadership

d) Members encouraged to:

i) Establish project safety committees

• Based on SCAL’s WSH Annual Workplan Survey, 82% of respondents have indicated that they have established Project Safety Committees at the workplace.

ii) Implement daily Permit-to-Work system for all high-risk activities

• SCAL Academy organises workshops on Permit-to-Work systems
• 8 classes were conducted for 106 participants in 2016
iii) Carry out regular accident case studies sharing sessions

- SCAL Academy organises workshops with case studies on accidents.
- 10 classes were conducted for 196 participants in 2016.
1. Leadership

iv) Organise safety and health campaigns at company and project levels at fixed intervals

• Some companies spearheading their own safety campaigns

v) Reward workers, supervisors with exemplary safety performance

• Annual SCAL WSH Supervisor Awards to recognise supervisors who possess good safety track records
2. Training

Skills, knowledge and competency
- Enhance WSH skills and knowledge of their employees
- Build up WSH competency
2. Training

i) Short courses and workshops on construction safety conducted at SCAL/SCAL Academy

<table>
<thead>
<tr>
<th>Item</th>
<th>Conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>For management and supervisory personnel</td>
<td>• 254 classes conducted for managers / supervisors with 2,664 participants in 2016</td>
</tr>
<tr>
<td>For WSH officers, WSH coordinators or WSH Advocates</td>
<td>• 62 classes conducted in Design for Safety / Level B WSH for Coordinators and Workshops</td>
</tr>
<tr>
<td></td>
<td>• Seminar for Safety Professionals with 693 participants in 2016</td>
</tr>
</tbody>
</table>
## 2. Training

ii) Competency-based training for workers and supervisory personnel

<table>
<thead>
<tr>
<th>Item</th>
<th>Conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>For formwork constructions, precast installations; and lifting operations</td>
<td>• 17 classes conducted for managers / supervisors with 196 participants in 2016</td>
</tr>
</tbody>
</table>
2. Training

iii) SCAL Safety Induction Training app

- Collaboration with REDAS and WSHC
- Easily accessible by site supervisors to train and highlight safe practices at worksites
- Provides visual images of actual situations on site that workers can relate to directly
- Downloadable on Android and Apple mobile devices

iv) WSHC Safety pictogram set
3. WSH Practices

**Advanced construction methods**

- Adopt advanced construction methods modular and mechanised systems that embrace safe work processes and reduce onsite processes
3. WSH Practices

**SCAL activities**

i) Organising forums, inter-site visits and other WSH-related events

ii) Collaborate with relevant government agencies to raise awareness and promote government grants (e.g. ePSS, MechC) for mechanisation to improve productivity & safety

iii) Organise the annual SCAL Safety Innovation Awards
1. Consequences for poor WSH
   • Regulatory penalties
   • Project delays
   • Reputation
   • Business viability

2. Prevention is better than cure
   • Project planning and management
   • Conduct risk assessment
   • Conduct regular spot checks and timeouts
   • Seek external help

3. Pricing for safety
   • Costing
   • Separate budget in tenders

4. Leverage on SCAL’s safety initiatives and programmes
Prevent All Injuries
Go Home Safe and Healthy