

香港岩土及岩土環境工程專業協會 ASSOCIATION OF GEOTECHNICAL & GEOENVIRONMENTAL SPECIALISTS (HONG KONG)

Section 4 – To be answered by Design Engineers only

4.1 Ty	pe of work commonly involved in? (more than one box may be ticked)	
A.	Structural permanent works design of buildings	
В.	E&M design for buildings	
C.	Structural temporary works design for buildings	
D.	Structural temporary works design for basements/temporary earth retaining structures	
E.	Geotechnical permanent works design of buildings/basements/bridges/other structures	
F.	Geotechnical temporary works design for basements/temporary earth retaining structures/temporary excavations	
G.	Structural permanent works design of viaducts/bridges	
Н.	Structural temporary works design for viaducts/bridges	
I.	Design of drainage/culverts/sewerage	
J.	Permanent works design of tunnels	
K.	Temporary works design of tunnels	
L.	Geotechnical design of landslip preventative measures	
M.	Design of roads/traffic engineering	
N.	Geotechnical design of reclamations	
Ο.	Remediation of contaminated sites	
P.	Design of landfills	
Q.	Marine/port works	
R.	Others (please specify)	
	by do you typically mitigate the risk of accidents on construction projects? (more than one e ticked)	box
A.	Identify hazards in addition to structural / geotechnical instability or failure, and mitigate risk through the preparation of designs	
В.	Encourage clients to adopt a significant technical or performance score component (30% or greater of total score) when evaluating contractors' tenders	
C.	Encourage selection of contractors having a high safety record and high safety standards	
D.	Encourage safety initiatives such as safety bonus and penalty schemes and or contractual requirements	

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E.	Encourage a longer copressure on the contra				e chosen to reduce			
F.	Encourage float in programme to cater for delays due to accidents							
G.	Encourage timely award of extensions of time							
Н.	Encourage budget all	Encourage budget allowance for safety measures						
I.	Encourage refinemen	t of desigr	n and of method of o	construction to in	nprove safety			
J.	Regular safety meeting	ngs and or	audits with Contrac	ctor				
K.	Regular safety walks	and inspe	ctions					
L.	Risk ownership predo	minantly p	placed with Contract	tor				
M.	Discouragement of m	ulti-layere	d subcontracting					
N.	Others (please specify	y)						
	ow do you rate the leven? (tick one box only)	el of atte	ntion <u>you</u> give to t	he safety of the	public when preparing	a		
A.	High		B. Medium		C. Low			
D.	Not applicable							
	ow do you rate the leven? (tick one box only)	el of atte	ntion <u>you</u> give to t	he safety of the	end-user when prepari	ng a		
A.	High		B. Medium		C. Low			
D.	Not applicable							
4.5 Ho	ow do you rate the lev	el of atte	ntion <u>you</u> give to c	onstruction wo	rkers when preparing a			
A.	High		B. Medium		C. Low			
	ow do you rate the lev	el of atte	ntion <u>you</u> give to n	naintenance wo	rkers when preparing a			
A.	High		B. Medium		C. Low			
D	Not applicable							

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onstruction of a projec						ase oi	
A. High		В.	Medium		C. Low		
8 Do you consider the aintenance work on E						e box	
A. Yes, regularly		В.	Sometimes		C. Seldom		
D. Never		E.	Not applicable				
9 Do you consider the e safety of the constru				f-site const	ruction methods to i	mprove	
A. Yes, regularly		В.	Sometimes		C. Seldom	_	
D. Never							
10 Do you attempt to reparing your designs A. Yes, regularly	? (tick one bo	ox on			C. Seldom	u wileli 	
D. Never							
11 Do you perform or	take part in	haza	rd identifications	and risk ass	sessments? (tick one	box only	
A. Yes, regularly		В.	Sometimes		C. Seldom		
D. Never							
12 Do you incorporate	safety mea	sure	s on your design o	drawings? (tick one box only)		
A. Yes, regularly		В.	Sometimes		C. Seldom		
D. Never	<u>-</u>						
13 If you answered A o					measures that you		
A. Safety railings and	d or anchorag	ge po	ints for safety lines			_	
B. Access ladders, st	Access ladders, staircases and safe access points						
C. Loading limits and	Loading limits and/or loading exclusion zones						
D. Illustrations of high	n risk scenari	ios ar	nd potential failure r	mechanisms			



E.	Details of critical observations to be made by site staff, to be communicated to the designer						
F.	Alert and stop-work limits for instrumentation and actions to be carried out upon reaching levels						
G.	Protective hoarding						
Н.	Details on the safe use of electricity and welding equipment						
I.	Site drainage facilities						
J.	Detailed construction sequence specified to mitigate risks						
K.	Others (please specify)						
	At what point in the design process do you commonly <u>first</u> consider safety issues (other than ity/structural capacity)? (tick one box only)						
	From the onset of design preparation						
	Midway during design preparation						
	Just prior to the issue of drawings						
	After the method of construction has been agreed with contractors						
	Not considered						
∟.	not considered						
	Oo you perform or take part in brainstorming of potential failure mechanisms of a design with s in your team? (tick one box only)						
A.	Yes, regularly B. Sometimes C. Seldom						
	Never						
							
	What do you consider the main obstacles to be to designers addressing safety issues? (more one box may be ticked)						
A.	Lack of time to focus on safety issues						
B.	Lack of knowledge/experience on construction, demolition and maintenance methods						
C.	Lack of suitably experienced staff in the market place						
D.	Lack of motivation in addressing safety issues						
E.	Wariness to exposing designer to greater liability						
F.	Others (please specify)						
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4.17	Generally, how	often do you m	nake visits to	any of the sites	s for which you	u provide	designs?
(tick	one box only)						

A.	More than once a week	
В.	Once a week to twice a month	
C.	Twice a month to once a month	
D.	Once a month to once every three months	
E.	Once every three months to once every six months	
F.	Less than once every six months	
1.18 C	Ooes your design appointment fee allow for site visits? (tick one box only)	
A.	Usually	
В.	Sometimes	
C.	Seldom	
D.	Never	
	low would you best describe your general handling of design changes due to requests / nation from site staff? (tick one box only)	
A.	Changes reviewed carefully with further analysis as required and findings conveyed back to site staff with modified drawings/sketches as necessary	
В.	Changes reviewed, although not always to a sufficient degree and response sent back to site staff	
C.	Changes seldom responded to due to a lack of time / resources	
D.	Change seldom responded to due to this being additional work, not covered by contractual appointment as the designer	
E.	Site staff seldom convey changes	