



UNIVERSITAT
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ESCUELA TÉCNICA SUPERIOR
DE INGENIEROS DE CAMINOS,
CANALES Y PUERTOS



APPENDIX 5. OVERALL HONG KONG FACTORS AFFECTING THE CRITICAL CONSTRUCTION TRADES RANK

**Study on improving labor productivity in the construction
industry. The cases of Europe and Hong Kong.**

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Table 1. Hong Kong overall factors affecting the critical trades rank

Rank	Factors	RII	Average
1	Inappropriate construction method	0,920	4,60
2	Errors/omissions in specifications and quality requirements	0,910	4,55
3	Material delivery problems	0,910	4,55
4	Design changes, errors, and omissions	0,900	4,50
5	Design complexity	0,900	4,50
6	Complexity of construction method	0,900	4,50
7	Improper coordination between different construction trades	0,900	4,50
8	Additions to the original scope of work	0,880	4,40
9	Labor shortage	0,870	4,35
10	Poor conditions of tools and equipment	0,860	4,30
11	Improper crew size and composition	0,860	4,30
12	Schedule changes	0,860	4,30
13	Unclear technical specifications	0,850	4,25
14	Unavailability of tools and equipment	0,840	4,20
15	Idle time	0,840	4,20
16	Overmanning	0,820	4,10
17	Communication problems between management and workers	0,820	4,10
18	Slow government approval process	0,820	4,10
19	Slow management decision process	0,810	4,05
20	Shortage of skilled/experienced workers	0,800	4,00
21	Lack of training/orientation program for workers	0,790	3,95
22	Poor qualification/experience of management at different levels	0,780	3,90
23	Improper allocation of tools and equipment	0,770	3,85
24	Schedule acceleration	0,770	3,85
25	Rework	0,770	3,85
26	Inconsistent rules of different supervision/management people	0,770	3,85
27	Inadequate safety measures	0,770	3,85
28	Adverse weather	0,770	3,85
29	Constrained construction site	0,760	3,80
30	Overtime work	0,760	3,80
31	Frequent worker turnover	0,760	3,80
32	Lack of incentives and respect for workers	0,750	3,75
33	Unfavorable economic and financial conditions	0,740	3,70
34	Fatigue, mental, and physical stress of workers	0,730	3,65
35	Worker absenteeism	0,720	3,60
36	Worker payment and compensation issues	0,710	3,55
37	Multiple Shifts	0,680	3,40
38	Unfavorable political environment	0,660	3,30
39	Social injustice and cultural conflicts	0,660	3,30
40	Language barriers	0,620	3,10