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APPENDICES

APPENDIX A
SURVEY QUESTIONNAIRE

QUESTIONNAIRE FOR LARGE SCALE STUDY (English)

Only first-line supervisor is requested to answer this questionnaire. If you are not a first-line supervisor, please do not answer this questionnaire.

This questionnaire is designed to explore what are the main factors that affect your Behavioral Intention and yourself behavior in safety action to enhance and improve safety supervision.

Please be assured that all information collected will be kept in strict confidence, and the results will be made available only in-group summary form without identifying individuals. Your genuine response and cooperation would be much appreciated. There are three parts in this questionnaire.

Please remember, there are no correct answers; the best answers are those that honestly reflect your feelings. Kindly note that we are not seeking the views of your company, but rather your own personal views.

SECTION 1

BACKGROUND INFORMATION AND FACTORS EXPLORATION

1. Company for which you are working: _____
2. Your current position is: _____
3. Years working in construction industry: _____ (In Years)
4. Years working as supervisor at construction site: _____ (In Years)
5. Age: _____ (In Years)
6. What is the highest level of education that you have completed? (Please tick the highest level you have completed)
 - ☐ Completed high school
 - ☐ Undergraduate university
 - ☐ Graduate university
7. How many time have you taken the training course as a Supervisor? (please tick the highest time you have completed)
 - ☐ Have never taken any course
 - ☐ One Time
 - ☐ Two Times
 - ☐ Others (Please identify) _____

8. Please tick the box to indicate which statements you will agree with, regarding your Safety Knowledge

- ☐ I have little knowledge about safety
- ☐ I understand necessary safety information and general hazards onsite
- ☐ I know how to control or avoid all potential hazards according to safety procedures

9. According to your work, you think your salary should be

- ☐ Increase, about _____ percent
- ☐ Not change, you are satisfied with your current salary
- ☐ Decrease, about _____ percent

10. Do you feel difficult to control your workers to obey safety regulation and process?

- ☐ Yes, it is very difficult for me to control them
- ☐ It is not so difficult for me to control them
- ☐ No, it is easy for me to control them

11. Please indicate your drinking habits

- ☐ I drink during working time (including lunch time and break)
- ☐ I drink, but not at working time
- ☐ I don't drink at any time

12. Please indicate your smoking habits

- ☐ I smoke during working time (including lunch time and break)
- ☐ I smoke, but not at working time
- ☐ I don't smoke at any time

13. Do your family remind you to keep safe in your work?

- ☐ No, they don't
- ☐ They rarely remind
- ☐ Yes, they often remind

14. What do you think about your coworkers' practice in their safety roles?

- ☐ They usually break the safety regulations
- ☐ They committed basic safety regulations
- ☐ They would react strongly against people who break safety and unsafe procedures

15. What do you think about your workers' safety behavior?
- ☐ They usually break the safety regulations
 - ☐ They just sometimes break the safety regulations
 - ☐ They rarely break the safety regulations to protect themselves
16. Do the Top-Managers put pressure on you to keep safety for construction site?
- ☐ Rarely ☐ Sometimes ☐ Always
17. Do the Project Owner request you to keep safety for construction site?
- ☐ Rarely ☐ Sometimes ☐ Always
18. What do you think about recognition of government and neighborhoods about safety?
- ☐ They rarely remind about safety at construction site
 - ☐ They sometimes remind about safety at construction site
 - ☐ They seriously remind and always checking safety status of construction site
19. What do you think about weather conditions you are working at your construction site?
- ☐ It is totally uncomfortable
 - ☐ It is a little uncomfortable
 - ☐ It is comfortable
20. Your current project's scale is
- ☐ Level IV (≤ 03 stories or $< 1,000\text{m}^2$)
 - ☐ Level III (04-08 stories or $1,000\text{-}5,000\text{m}^2$)
 - ☐ Level II (09-19 stories or $5,000\text{-}10,000\text{m}^2$)
 - ☐ Level I (20-29 stories or $10,000\text{-}15,000\text{m}^2$)
 - ☐ Special Level (≥ 30 stories or $\geq 15,000\text{m}^2$)
21. What type of project owner of your current project?
- ☐ It belongs to government
 - ☐ It is private project
 - ☐ Foreign investment
22. How is the schedule of your current project?
- ☐ The schedule is very stressful to finish on time
 - ☐ The schedule is normal
 - ☐ The schedule is idle

23. How is your workload assigned in current project?
- ☐ It is too much
 - ☐ It is moderate
 - ☐ It is gently
24. How is your safety workplace environment?
- ☐ Bad
 - ☐ Average
 - ☐ Good
25. How is the safety management system at your construction site?
- ☐ Don't have safety management system
 - ☐ It need to be improved
 - ☐ It is suitable for me to perform my job
26. How can safety regulation and procedure prevent accidents and reduce injuries at construction site?
- ☐ Bad
 - ☐ Average
 - ☐ Good
27. How is the company financial support for safety issues?
- ☐ Low
 - ☐ Average
 - ☐ High
28. How is your company vision about safety?
- ☐ Safety is not important than other target as quality, duration and budget
 - ☐ Safety is important equal with quality, duration and budget
 - ☐ Safety is strength of company in developing reputation

SECTION 2

EXPLORE FACTORS AFFECT THE SUPERVISOR'S BEHAVIOR ON SAFETY ACTION QUESTIONNAIRE

Please circle the number on the right against each question that best indicates your.

Strongly disagree	Disagree	Not Sure	Agree	Strongly agree
1	2	3	4	5

<i>Do you think these factors can influence your behavior on safety action?</i>	1	2	3	4	5
1. Age can influence your behavior on safety action	1	2	3	4	5
2. Education background can influence your behavior on safety action	1	2	3	4	5
3. Safety knowledge can influence your behavior on safety action	1	2	3	4	5
4. Working experience can influence your behavior on safety action	1	2	3	4	5
5. Salary satisfaction can influence your behavior on safety action	1	2	3	4	5
6. Supervisor capability to control workers can influence your behavior in safety	1	2	3	4	5
7. Drinking can influence your behavior on safety action	1	2	3	4	5
8. Smoking can influence your behavior on safety action	1	2	3	4	5
9. Family can influence your behavior on safety action	1	2	3	4	5
10. Coworkers can influence your behavior on safety action	1	2	3	4	5
11. Workers can influence your behavior on safety action	1	2	3	4	5
12. Top manager can influence your behavior on safety action	1	2	3	4	5
13. Project owner can influence your behavior on safety action	1	2	3	4	5
14. Community pressure as government, law, environments can influence your behavior on safety action	1	2	3	4	5
15. Weather can influence your behavior on safety action	1	2	3	4	5
16. Project scale can influence your behavior on safety action	1	2	3	4	5
17. Project schedule can influence your behavior on safety action	1	2	3	4	5
18. Amount of work responsibility can influence your behavior on safety action	1	2	3	4	5
19. Type of project owner can influence your behavior on safety action	1	2	3	4	5
20. Providing of safety training programs can influence your behavior in safety	1	2	3	4	5
21. Workplace environment can influence your behavior on safety action	1	2	3	4	5
22. Safety management system can influence your behavior on safety action	1	2	3	4	5
23. Safety regulations and procedures can influence your behavior on safety action	1	2	3	4	5
24. Company financial supports for safety issue can influence your behavior on safety action	1	2	3	4	5
25. Company vision or expected targets of project can influence your behavior on safety action	1	2	3	4	5

SECTION 3

MEASUREMENT OF SUPERVISOR'S SAFETY BEHAVIORAL INTENTION

The situations include 2 main parts which related to falling from height hazard and electrocution hazard. Please circle the number on the right against each question that best indicates your.

<i>Given each situation occurs 10 times at your construction site, how many times would you stop workers working until it is fixed in safety state?</i>	0  10
PART 1: FALLING FROM HEIGHT HAZARD	
<i>SITUATION 1:</i> Once one worker is ready to start his job, he climbs the scaffold up to the level he must work at. At that time you realize that the scaffold is not totally boarded.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 2:</i> Workers are ready to start his job which requires to use ladders to climb up to a higher level is not tied or secured or ladder not enough 1 meter above the landing place.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 3:</i> When the workers ready to start their job on roof or high level and you realize that there are many holes still not be shield	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 4:</i> Your workers are working on roof or high level without edge protection and personal protections have not been provided.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 5:</i> Your workers are working on roof or high level in bad weather such as windy, small rain	0 1 2 3 4 5 6 7 8 9 10
PART 2: ELECTROCUTION	
<i>SITUATION 6:</i> Workers are using electrical equipment for their works but the electric wire quality not satisfy the technique requirement	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 7:</i> Workers are using electrical equipment for their works but there is a part of jumper wire touch the water on the ground.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 8:</i> Workers are using handle electrical equipment for their works without any personal protections as gloves, boots.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 9:</i> Workers are using electrical equipment but don't have any circuit breaker, plug pin, safety box.	0 1 2 3 4 5 6 7 8 9 10
<i>SITUATION 10:</i> Electric line in your construction is very low and interlace and there is equipment inside your construction such as concrete pump, truck.	0 1 2 3 4 5 6 7 8 9 10

SECTION 4

MEASUREMENT OF SUPERVISOR'S SAFETY BEHAVIOR

The items below represent important supervisor behaviors on safety action that build positive affect to worker, please rate yourself on each item according to scale described below:

Frequency apply activities related safety issue of supervisor:				
0 —————> 4				
Never Applies		Applies most of the time		
0	1	2	3	4
Never	Rarely	Sometimes	Usually	Always

		Frequency Apply				
		0 —————> 4				
<i>According to safety, please rate yourself on each item</i>						
<i>Investigation</i>	01. You investigate for the causes of injuries that required the attention of a medical doctor	0	1	2	3	4
	02. You conduct an investigation on the causes of accidents immediately	0	1	2	3	4
	03. You investigate the causes of accidents carefully in details	0	1	2	3	4
<i>Inspection</i>	04. You may inspect and correct hazards which can cause accidents	0	1	2	3	4
	05. You can give recommendations to the management in order to prevent a similar accident would occur again	0	1	2	3	4
	06. You carry out inspections for workers realize hazards on the site	0	1	2	3	4
<i>Coaching</i>	07. You educate your workers to correct hazards	0	1	2	3	4
	08. You set up meetings to coach the group of workers	0	1	2	3	4
	09. You provide an orientation program to new workers on site about safety issues	0	1	2	3	4
<i>Motivating</i>	10. You contact workers individually to inspect them working safely	0	1	2	3	4
	11. You use safety materials to motivate the workers working safely such as safety signs, notices, and movies	0	1	2	3	4
	12. You operate some attitude activity to improve your workers safety behavior	0	1	2	3	4

QUESTIONNAIRE FOR LARGE SCALE STUDY (Vietnamese)

BẢNG KHẢO SÁT
CÁC YẾU TỐ TÁC ĐỘNG ĐẾN HÀNH VI CỦA NGƯỜI GIÁM SÁT
TRONG VIỆC ĐẢM BẢO AN TOÀN LAO ĐỘNG
TẠI CÔNG TRƯỜNG XÂY DỰNG

Kính gửi Quý Ông/Bà,

Tôi tên Nguyễn Anh Thu, là học viên cao học chuyên ngành Công nghệ và Quản lý xây dựng của Trường Đại học Chulalongkorn, Thái Lan. Tôi đang thực hiện luận văn tốt nghiệp với đề tài nghiên cứu: **Các yếu tố tác động đến hành vi của người giám sát trong việc đảm bảo an toàn lao động tại công trường xây dựng**. Những thông tin mà Ông/Bà cung cấp sẽ rất bổ ích cho nghiên cứu.

Dưới đây là tập hợp các câu hỏi mà việc xem xét đánh giá chúng có liên quan rất nhiều đến kinh nghiệm thực tế trong quá trình công tác của Ông/Bà. Rất mong Ông/Bà dành chút thời gian cho việc trả lời những câu hỏi này. Mọi thông tin Ông/Bà cung cấp sẽ được giữ bí mật và chỉ được dùng để phục vụ cho nghiên cứu.

Xin chân thành cảm ơn.

Tác giả sẵn sàng chia sẻ mọi thắc mắc và kết quả nghiên cứu nếu Ông Bà có quan tâm. Xin vui lòng liên hệ:

Nguyễn Anh Thu – Học viên cao học khóa 2008, ngành Công nghệ và quản lý xây dựng, trường Đại học Chulalongkorn, Thái Lan

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PHẦN I: THÔNG TIN CHUNG

Ông/Bà vui lòng đánh dấu (X) vào câu trả lời hoặc trả lời trực tiếp cho các câu hỏi sau:

1. Công ty Ông/Bà đang làm việc:
2. Vị trí/chức danh hiện tại của Ông/Bà:
3. Thời gian Ông/Bà công tác trong lĩnh vực xây dựng:
4. Thời gian Ông/Bà công tác với cương vị là người giám sát thi công:
5. Xin vui lòng cho biết tuổi của Ông/Bà:
6. Bằng cấp học vấn cao nhất hiện tại của Ông/Bà:
- ☐ Dưới đại học
- ☐ Đại học
- ☐ Trên đại học
7. Số lần Ông/Bà đã từng tham gia các khoá học, huấn luyện về nghiệp vụ giám sát:
- ☐ Chưa bao giờ ☐ 1 lần ☐ Khác (số lần:)
8. Ông/Bà đánh giá thế nào về kiến thức an toàn lao động của bản thân:
- ☐ Hiểu biết một số ít thông tin cơ bản về an toàn lao động và các mối nguy hiểm trên công trường
- ☐ Có thể hạn chế và ngăn ngừa những nguy cơ có thể dẫn đến tai nạn
- ☐ Có đầy đủ kiến thức và có thể quản lý tốt đảm bảo an toàn lao động
9. Ông/Bà tự xét thấy mức lương mà công ty chi trả cho Ông/Bà tại thời điểm hiện tại nên:
- ☐ Tăng,phần trăm ☐ Không tăng giảm ☐
- Giảm,phần trăm
10. Ông/Bà có gặp khó khăn khi kiểm soát công nhân tuân thủ các quy tắc về an toàn lao động hay không:
- ☐ Có, gặp rất nhiều khó khăn
- ☐ Không quá khó khăn
- ☐ Không có khó khăn gì
11. Ông/Bà có thói quen thường:
- ☐ Uống rượu/bia (chất tương tự) trong giờ làm việc hay thời gian nghỉ trưa, giải lao
- ☐ Uống rượu/bia ngoài giờ làm việc
- ☐ Không có thói quen uống rượu/bia bất kỳ ở đâu



12. Ông/Bà có thói quen thường:
- ☐ Hút thuốc trong giờ làm việc hay thời gian nghỉ trưa, giải lao
 - ☐ Hút thuốc ngoài giờ làm việc
 - ☐ Không có thói quen hút thuốc dù bất kỳ ở đâu
13. Gia đình có thường nhắc nhở Ông/Bà nên đảm bảo an toàn lao động cho công trường:
- ☐ Không
 - ☐ Có nhưng ít khi
 - ☐ Có rất thường xuyên
14. Những đồng nghiệp (kỹ sư) xung quanh Ông/Bà thực hiện an toàn lao động như thế nào?
- ☐ Họ thường không tuân thủ những quy tắc, quy trình về an toàn lao động
 - ☐ Họ chỉ tuân thủ một vài nguyên tắc bắt buộc về an toàn lao động
 - ☐ Họ phản đối mạnh mẽ những người hoặc những quy trình thiếu an toàn
15. Ông/Bà đánh giá như thế nào về việc tuân thủ nguyên tắc và quy trình an toàn lao động của công nhân?
- ☐ Ít khi
 - ☐ Thỉnh thoảng
 - ☐ Thường xuyên
16. Quản lý cấp trên có thường nhắc nhở Ông/Bà về việc phải đảm bảo an toàn lao động:
- ☐ Ít khi
 - ☐ Thỉnh thoảng
 - ☐ Thường xuyên
17. Chủ đầu tư có thường yêu cầu Ông/Bà phải lưu tâm đến vấn đề an toàn lao động cho công trình?
- ☐ Ít khi
 - ☐ Thỉnh thoảng
 - ☐ Thường xuyên
18. Chính quyền địa phương tại công trình xây dựng nhận thức thế nào về an toàn lao động?
- ☐ Ít khi nhắc nhở về an toàn tại công trường
 - ☐ Thỉnh thoảng nhắc nhở về an toàn tại công trường
 - ☐ Thường xuyên nhắc nhở và kiểm tra tình trạng an toàn tại công trường
19. Ông/Bà đánh giá thế nào về điều kiện thời tiết tại công trường nơi Ông/Bà đang làm việc?
- ☐ Hoàn toàn không thoải mái
 - ☐ Có một chút không thoải mái
 - ☐ Rất thoải mái
20. Quy mô dự án hiện tại Ông/Bà đang làm việc:
- ☐ Cấp IV (≤ 03 tầng hoặc $< 1,000m^2$)
 - ☐ Cấp III (04-08 tầng hoặc $1,000-5,000m^2$)
 - ☐ Cấp II (09-19 tầng hoặc $5,000-10,000m^2$)
 - ☐ Cấp I (20-29 tầng hoặc $10,000-15,000m^2$)
 - ☐ Cấp đặc biệt (≥ 30 tầng hoặc $\geq 15,000m^2$)

21. Nguồn vốn của dự án hiện tại Ông/Bà đang làm việc:
- ☐ Ngân sách nhà nước
 - ☐ Vốn tư nhân
 - ☐ Vốn đầu tư nước ngoài hoặc có một phần vốn nước ngoài
22. Tiến độ của dự án hiện tại Ông/Bà đang làm việc:
- ☐ Căng thẳng, buộc phải hoàn thành đúng thời hạn
 - ☐ Bình thường
 - ☐ Nhàn rỗi, không bị sức ép về tiến độ
23. Ông/Bà đánh giá như thế nào về khối lượng công việc được giao:
- ☐ Khối lượng công việc bị quá tải
 - ☐ Khối lượng công việc ở mức vừa phải
 - ☐ Khối lượng công việc tương đối nhẹ nhàng
24. Ông/Bà đánh giá như thế nào về tính an toàn tại công trường đang làm việc:
- ☐ Thiếu an toàn
 - ☐ Trung bình
 - ☐ Tốt
25. Ông/Bà đánh giá như thế nào về hệ thống quản lý an toàn tại công trường đang làm việc:
- ☐ Không có hệ thống quản lý về an toàn lao động
 - ☐ Cần phải cải tiến nhiều hơn
 - ☐ Rất tốt và phù hợp
26. Các nguyên tắc về an toàn đang được áp dụng tại công trường có tác dụng như thế nào trong việc ngăn ngừa và giảm thiểu tai nạn lao động hay không:
- ☐ Tác dụng rất thấp
 - ☐ Trung bình
 - ☐ Tác dụng rất tốt
27. Ông/ Bà đánh giá thế nào về việc cung cấp đầy đủ kinh phí cho các hoạt động, thiết bị về an toàn lao động:
- ☐ Không, rất thiếu
 - ☐ Mức độ trung bình
 - ☐ Có, rất đầy đủ
28. Công ty Ông/ Bà đang làm việc có tầm nhìn như thế nào về an toàn lao động?
- ☐ An toàn lao động **không** quan trọng bằng những mục tiêu khác như chất lượng, lợi nhuận...
 - ☐ An toàn lao động **cũng** quan trọng ngang những mục tiêu khác như chất lượng, lợi nhuận...
 - ☐ An toàn lao động là một thế mạnh cạnh tranh và phát triển danh tiếng công ty

PHẦN II: CÁC YẾU TỐ TÁC ĐỘNG ĐẾN HÀNH VI CỦA NGƯỜI GIÁM SÁT TRONG VIỆC ĐẢM BẢO AN TOÀN LAO ĐỘNG TẠI CÔNG TRƯỜNG

Ông/Bà vui lòng đánh dấu (X) vào một trong các lựa chọn trả lời theo các mức độ sau:

Hoàn toàn không đồng ý	Phần nào không đồng ý	Không đồng ý cũng không phản đối	Phần nào đồng ý	Hoàn toàn đồng ý
1	2	3	4	5

STT	Các yếu tố sau đây sẽ ảnh hưởng đến việc thực hiện trách nhiệm đảm bảo an toàn lao động tại công trường xây dựng của Ông/Bà	Ý kiến				
		1	2	3	4	5
1	Tuổi tác sẽ ảnh hưởng đến việc thực hiện trách nhiệm đảm bảo an toàn lao động tại công trường xây dựng					
2	Trình độ học vấn sẽ ảnh hưởng đến việc thực hiện trách nhiệm đảm bảo an toàn lao động tại công trường xây dựng					
3	Kiến thức, sự hiểu biết về an toàn lao động					
4	Kinh nghiệm làm việc					
5	Sự thoả mãn về phúc lợi lương bổng					
6	Khả năng điều khiển công nhân					
7	Việc uống rượu bia					
8	Việc hút thuốc					
9	Gia đình					
10	Đồng nghiệp					
11	Công nhân					
12	Quản lý cấp trên					
13	Chủ đầu tư					
14	Sức ép từ xã hội, pháp luật, chính quyền địa phương					
15	Điều kiện khí hậu					
16	Quy mô của dự án					
17	Tiến độ dự án					
18	Khối lượng công việc					
19	Loại chủ đầu tư					
20	Các chương trình huấn luyện về an toàn lao động					
21	Môi trường làm việc					
22	Hệ thống quản lý an toàn					
23	Các quy tắc và quy trình an toàn					
24	Sự hỗ trợ tài chính của công ty về an toàn lao động					
25	Chiến lược của công ty về an toàn lao động					

PHẦN III: MÔ PHỎNG HÀNH VI CỦA NGƯỜI GIÁM SÁT TRONG VIỆC ĐẢM BẢO AN TOÀN LAO ĐỘNG TẠI CÔNG TRƯỜNG XÂY DỰNG

Hãy tưởng tượng những tình huống bên dưới đây xảy ra tại công trường mà Ông/Bà là giám sát thi công. Ông/Bà sẽ quyết định như thế nào, vui lòng đánh dấu (X) vào một trong số lựa chọn trả lời sau: *(Xin Ông/Bà lưu ý không có đáp án đúng hay sai, xin chọn đáp án tương ứng với những gì Ông/Bà sẽ làm nếu tình huống tương tự xảy ra trong thực tế)*

<i>Giả định mỗi tình huống sau xảy ra 10 lần tại công trường mà Ông/Bà là giám sát thi công. <u>Có bao nhiêu lần trong số 10 lần trên</u> Ông/Bà nhắc nhở công nhân phải cẩn thận thậm chí yêu cầu ngưng công việc cho đến khi thực sự an toàn?</i>	Số lần trong số 10 lần tình huống xảy ra 0 10
Phần 1: Nguy cơ ngã cao	
1. Khi một công nhân chuẩn bị leo lên tầng cao để thực hiện công việc được giao bằng dàn giáo, Ông/Bà nhận ra rằng dàn giáo không được lát ván hoàn toàn	0 1 2 3 4 5 6 7 8 9 10
2. Một công nhân chuẩn bị dùng thang để leo lên vị trí cao hơn để công tác nhưng thang không được chốt neo cố định, không cao hơn vị trí cần leo 1m	0 1 2 3 4 5 6 7 8 9 10
3. Các công nhân đang chuẩn bị làm việc trên cao, Ông/Bà nhận ra rằng các lỗ thông tầng, buồng thang máy vẫn chưa có hàng rào che chắn.	0 1 2 3 4 5 6 7 8 9 10
4. Các công nhân đang chuẩn bị làm việc trên mái cao, Ông/Bà nhận ra rằng các thiết bị bảo hộ lao động như dây đai an toàn vẫn chưa được trang bị đủ.	0 1 2 3 4 5 6 7 8 9 10
5. Các công nhân đang chuẩn bị làm việc trên mái cao, thời tiết không tốt như nhiều gió, mưa nhẹ.	0 1 2 3 4 5 6 7 8 9 10
Phần 2: Nguy cơ điện giật	
6. Các công nhân cần sử dụng thiết bị điện để làm việc, song dây dẫn điện không đạt tiêu chuẩn cho phép sử dụng.	0 1 2 3 4 5 6 7 8 9 10
7. Các công nhân cần sử dụng thiết bị điện để làm việc, song có một đoạn cáp nối tiếp xúc với nước trên sàn	0 1 2 3 4 5 6 7 8 9 10
8. Một công nhân đang sử dụng một thiết bị cầm tay dùng điện để thao tác mà không có thiết bị bảo hộ lao động như găng tay cách điện, ủng...	0 1 2 3 4 5 6 7 8 9 10
9. Khi kiểm tra, Ông/Bà nhận thấy các thiết bị điện không có lưới bảo vệ, chốt cấm, hộp an toàn điện.	0 1 2 3 4 5 6 7 8 9 10
10. Mạng dây điện tại công trường hơi thấp và có thể gây vướng cho các phương tiện vận chuyển chuẩn bị vào công trường như xe đổ bê tông, xe tải...	0 1 2 3 4 5 6 7 8 9 10

PHẦN IV: HÀNH VI CỦA NGƯỜI GIÁM SÁT TRONG VIỆC ĐẢM BẢO AN TOÀN LAO ĐỘNG TẠI CÔNG TRƯỜNG XÂY DỰNG

Ông/Bà vui lòng đánh dấu (X) vào một trong các lựa chọn mô tả gần đúng nhất những gì đã được Ông/Bà thực hiện để đảm bảo an toàn cho công trường xây dựng với thang đo được mô tả bên dưới:

Tần suất áp dụng/ thực hiện các nghĩa vụ của người giám sát về an toàn lao động:				
1 —————> 4 Không bao giờ Luôn luôn				
0	1	2	3	4
Không bao giờ	Ít khi	Thỉnh thoảng	Thường xuyên	Luôn luôn

Ông/Bà vui lòng đánh dấu (X) vào một trong các lựa chọn mô tả gần đúng nhất những gì Ông/Bà đã thực hiện cho công trình hiện tại		Tần suất áp dụng/ Thực hiện				
		0  4 (Không bao giờ) (Luôn luôn)				
Nghiên cứu về tai nạn lao động	1. Tìm hiểu về nguyên nhân dẫn đến tai nạn. <i>Chú ý: Tai nạn cần đến y tế hoặc nặng hơn</i>	0	1	2	3	4
	2. Điều tra nguyên nhân tai nạn ngay lập tức sau khi tai nạn xảy ra.	0	1	2	3	4
	3. Ông/Bà cố gắng tìm hiểu càng nhiều nguyên nhân càng tốt để tìm cách ngăn chặn những rủi ro tương tự trong tương lai.	0	1	2	3	4
Hướng dẫn an toàn lao động	4. Khắc phục, sửa sai những rủi ro ngay nếu tai nạn xảy ra.	0	1	2	3	4
	5. Đề ra những biện pháp, đưa ra lời khuyên nhắc nhở công nhân tránh những rủi ro tương tự có thể xảy ra.	0	1	2	3	4
	6. Kiểm tra chỉ dẫn công nhân để họ tự nhận ra những rủi ro mà tự mình phòng tránh.	0	1	2	3	4
Huấn luyện an toàn lao động	7. Hướng dẫn công nhân tự sửa chữa những mối nguy hiểm	0	1	2	3	4
	8. Tổ chức các buổi huấn luyện cho công nhân về an toàn lao động.	0	1	2	3	4
	9. Định hướng, chỉ dẫn cho những công nhân mới vào làm về an toàn lao động.	0	1	2	3	4
Thúc đẩy ý thức an toàn lao động	10. Đến nơi chỉ dẫn từng công nhân làm việc an toàn, sửa sai khi thấy họ thao tác thiếu an toàn.	0	1	2	3	4
	11. Khích lệ, động viên công nhân làm việc an toàn bằng cách tuyên dương, trao thưởng...	0	1	2	3	4
	12. Tổ chức các hoạt động để nâng cao thái độ, quan điểm của công nhân về an toàn lao động.	0	1	2	3	4

Nếu Ông Bà không phiền lòng, xin cung cấp thông tin liên lạc:

Họ tên:

Cách liên hệ:

Một lần nữa, xin chân thành cảm ơn sự giúp đỡ nhiệt tình của Ông/Bà!

Trân trọng kính chào!

APPENDIX B

LINEAR REGRESSION RESULTS FROM SPSS PROGRAM

LINEAR REGRESSION RESULTS FROM SPSS PROGRAM

Descriptive Statistics

	Mean	Std. Deviation	N
SafetyBehavior	28.9461	6.86728	241
Behavioral Intention	51.8589	24.00531	241

Correlations

		SafetyBehavior	Behavioral Intention
Pearson Correlation	SafetyBehavior	1.000	.261
	Behavioral Intention	.261	1.000
Sig. (1-tailed)	SafetyBehavior	.	.000
	Behavioral Intention	.000	.
N	SafetyBehavior	241	241
	Behavioral Intention	241	241

Variables Entered/Removed^b

Model	Variables Entered	Variables Removed	Method
1	Behavioral Intention ^a		Enter

a. All requested variables entered.

b. Dependent Variable: SafetyBehavior

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.261 ^a	.068	.064	6.64302

a. Predictors: (Constant), Behavioral Intention

b. Dependent Variable: SafetyBehavior

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	771.295	1	771.295	17.478	.000 ^a
	Residual	10547.004	239	44.130		
	Total	11318.299	240			

a. Predictors: (Constant), Behavioral Intention

b. Dependent Variable: SafetyBehavior

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B	
	B	Std. Error	Beta			Lower Bound	Upper Bound
1 (Constant)	25.073	1.020		24.572	.000	23.063	27.083
Behavioral Intention	.075	.018	.261	4.181	.000	.039	.110

a. Dependent Variable: SafetyBehavior

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	Behavioral Intention
1	1	1.908	1.000	.05	.05
	2	.092	4.549	.95	.95

Casewise Diagnostics^a

Case Number	Std. Residual	SafetyBehavior	Predicted Value	Residual
121	-4.013	2.00	28.6579	-26.65788
366	-3.123	5.00	25.7454	-20.74541

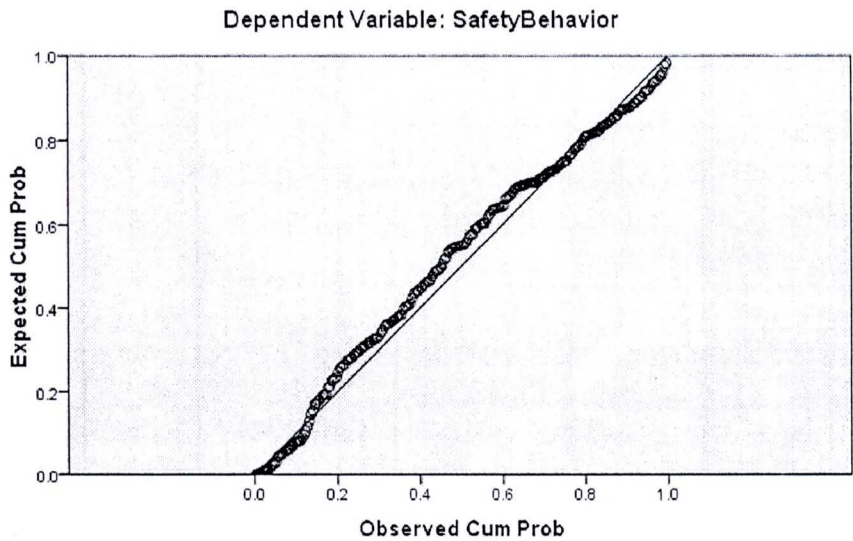
a. Dependent Variable: SafetyBehavior

Residuals Statistics^a

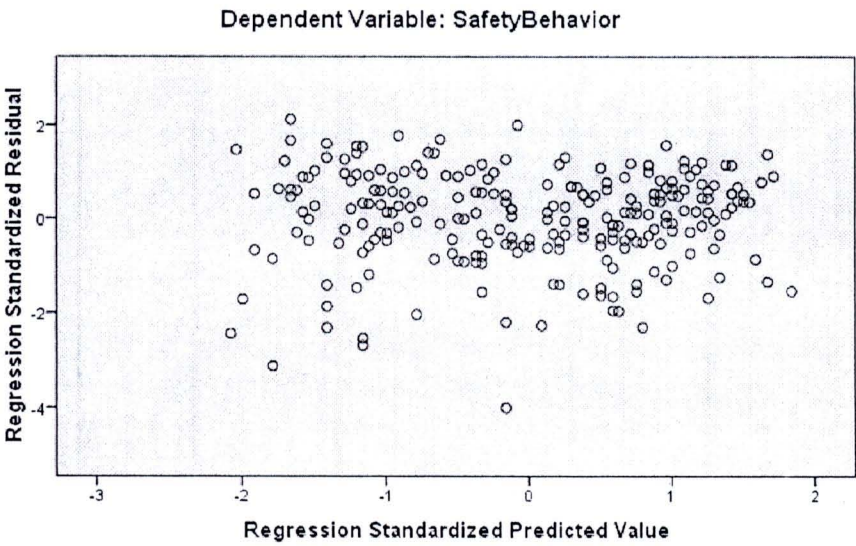
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	25.2227	32.2425	28.9461	1.79269	241
Std. Predicted Value	-2.077	1.839	.000	1.000	241
Standard Error of Predicted Value	.428	.988	.590	.135	241
Adjusted Predicted Value	25.0851	32.4327	28.9443	1.79151	241
Residual	-26.65788	14.03056	.00000	6.62917	241
Std. Residual	-4.013	2.112	.000	.998	241
Stud. Residual	-4.021	2.129	.000	1.003	241
Deleted Residual	-26.77185	14.25344	.00178	6.69062	241
Stud. Deleted Residual	-4.156	2.145	-.002	1.009	241
Mahal. Distance	.000	4.314	.996	.943	241
Cook's Distance	.000	.088	.005	.009	241
Centered Leverage Value	.000	.018	.004	.004	241

a. Dependent Variable: SafetyBehavior

Normal P-P Plot of Regression Standardized Residual



Scatterplot



APPENDIX C

FACTOR ANALYSIS RESULTS FROM SPSS PROGRAM

C1. Factor Analysis Results Based on Supervisor's Perception

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.845
Bartlett's Test of Sphericity Approx. Chi-Square	3807.971
df	300
Sig.	.000

Communalities

	Initial	Extraction
Age	1.000	.511
Education background	1.000	.436
Safety knowledge	1.000	.602
Working experience	1.000	.593
Salary satisfaction	1.000	.360
Supervisor capability to control workers	1.000	.434
Drinking	1.000	.780
Smoking	1.000	.807
Family	1.000	.669
Coworkers	1.000	.642
Workers	1.000	.504
Top manager	1.000	.733
Project owner	1.000	.763
Community pressure as government, law, environments	1.000	.519
Weather conditions	1.000	.350
Project scale	1.000	.620
Project schedule	1.000	.709
Amount of work responsibility	1.000	.656
Type of project owner	1.000	.534
Providing of safety training programs	1.000	.537
Workplace environment	1.000	.557
Safety management system	1.000	.712
Safety regulations and procedures	1.000	.673
Company financial supports for safety issue	1.000	.627
Company vision about safety	1.000	.629

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.845
Bartlett's Test of Sphericity Approx. Chi-Square	3807.971
df	300

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	6.521	26.085	26.085	6.521	26.085	26.085
2	2.812	11.247	37.332	2.812	11.247	37.332
3	1.599	6.397	43.729	1.599	6.397	43.729
4	1.570	6.278	50.008	1.570	6.278	50.008
5	1.345	5.382	55.390	1.345	5.382	55.390
6	1.111	4.445	59.835	1.111	4.445	59.835
7	.996	3.986	63.821			
8	.923	3.692	67.512			
9	.833	3.332	70.844			
10	.765	3.060	73.904			
11	.753	3.011	76.915			
12	.660	2.639	79.554			
13	.572	2.289	81.843			
14	.557	2.229	84.072			
15	.500	1.998	86.070			
16	.465	1.859	87.929			
17	.449	1.796	89.726			
18	.426	1.705	91.431			
19	.384	1.535	92.965			
20	.366	1.463	94.428			
21	.361	1.444	95.872			
22	.286	1.142	97.015			
23	.279	1.118	98.132			
24	.261	1.043	99.176			
25	.206	.824	100.000			

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.845
Bartlett's Test of Sphericity Approx. Chi-Square	3807.971
df	300

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component					
	1	2	3	4	5	6
Company financial supports for safety issue	.640	-.399				
Workplace environment	.628	-.343				
Safety management system	.618	-.522				
Project schedule	.592		-.532			
Amount of work responsibility	.585		-.448			
Top manager	.581	.428				-.320
Workers	.578	.336				
Working experience	.576				-.348	-.308
Safety regulations and procedures	.573	-.515				
Providing of safety training programs	.562	-.440				
Project owner	.555	.429				-.396
Project scale	.544	.308	-.460			
Company vision about safety	.534	-.470				
Safety knowledge	.515					-.322
Coworkers	.511	.429	.332			
Community pressure as government, law, environments	.502	.386				
Type of project owner	.498	.379	-.355			
Weather conditions	.479					
Supervisor capability to control workers	.445				-.307	
Family	.437	.353	.381			.404
Salary satisfaction	.357		.304			
Drinking				.704	.313	
Age				.436	-.338	.331
Education background	.372			.382		
Smoking				.576	.604	

Rotated Component Matrix^a

	Component					
	1	2	3	4	5	6
Safety management system	.816					
Safety regulations and procedures	.796					
Company vision about safety	.777					
Company financial supports for safety issue	.740					
Workplace environment	.660					
Providing of safety training programs	.648			.324		
Project schedule		.804				
Amount of work responsibility		.766				
Project scale		.752				
Type of project owner		.678				
Weather conditions		.484				
Project owner			.832			
Top manager			.804			
Community pressure as government, law, environments			.665			
Workers			.507		.388	
Safety knowledge				.706		
Working experience				.674		
Supervisor capability to control workers				.594		
Education background				.518	.353	
Family			.346		.720	
Coworkers			.456		.629	
Age					.580	
Salary satisfaction				.306	.495	
Smoking						.874
Drinking						.849

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

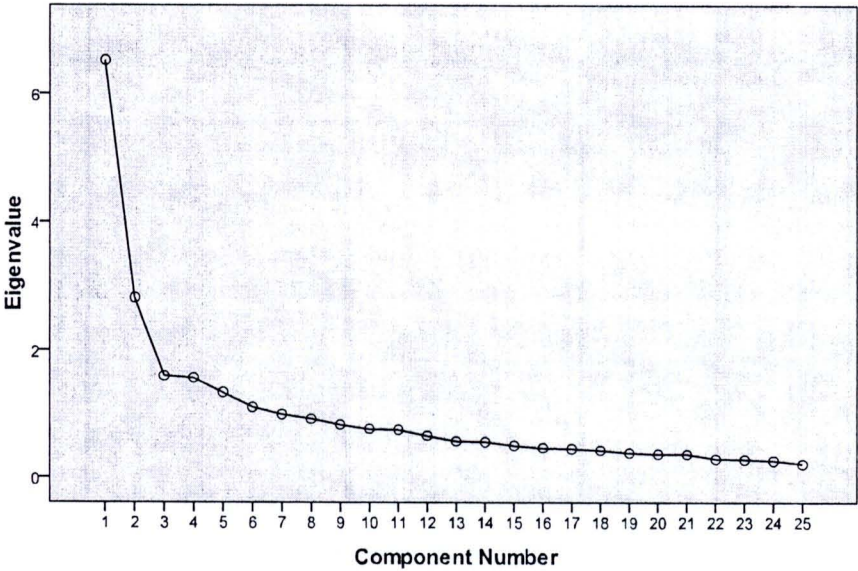
a. Rotation converged in 11 iterations.

Total Variance Explained

Compo nent	Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %
1	3.707	14.827	14.827
2	2.914	11.656	26.483
3	2.679	10.714	37.197
4	2.128	8.513	45.710
5	1.953	7.813	53.524
6	1.578	6.311	59.835

Extraction Method: Principal Component Analysis.

Scree Plot



Component Transformation Matrix

Component	1	2	3	4	5	6
1	.575	.487	.429	.369	.312	.124
2	-.661	.375	.508	-.267	.289	-.097
3	.027	-.734	.373	.202	.455	-.272
4	-.321	-.087	-.257	.333	.390	.749
5	.268	-.251	.388	-.619	-.129	.561
6	.239	.113	-.450	-.508	.666	-.160

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Correlation Matrix

Component	1	2	3	4	5	6
1	1.000	-.205	-.326	.000	-.040	.216
2	-.205	1.000	.280	-.134	.325	-.118
3	-.326	.280	1.000	-.112	.182	-.269
4	.000	-.134	-.112	1.000	-.116	.097
5	-.040	.325	.182	-.116	1.000	-.201
6	.216	-.118	-.269	.097	-.201	1.000

Extraction Method: Principal Component Analysis.

Rotation Method: Oblimin with Kaiser Normalization.

C2. Factor Analysis Results Based on Actual Practice

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.783
Bartlett's Test of Sphericity	Approx. Chi-Square	1718.060
	df	300.000
	Sig.	.000

Communalities

	Initial	Extraction
Experience As Supervisor	1.000	.693
Age	1.000	.752
Train	1.000	.542
Education Background	1.000	.608
Safety Knowledge	1.000	.446
Salary Satisfaction	1.000	.689
Difficulty to control worker	1.000	.547
Drinking Habits	1.000	.571
Smoking Habits	1.000	.679
Safety Remind from Family	1.000	.488
Safety Attitude of Coworker	1.000	.407
Workers' Safety Behavior	1.000	.395
Awareness of Top Manager in Safety	1.000	.511
Awareness of Owner in Safety	1.000	.567
Recognition of Government and Neighborhoods about Safety	1.000	.452
Weather Conditions at Construction Site	1.000	.413
Project Scale	1.000	.541
Project Owner Type	1.000	.518
Project Schedule	1.000	.623
Workload Assigned in Project	1.000	.662
Safety Workplace Environment	1.000	.593
Safety Management System	1.000	.567
Practical of Safety Regulation and Procedure	1.000	.519
Company Financial Support for Safety Issue	1.000	.553
Company Vision about Safety	1.000	.465

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.186	16.746	16.746	4.186	16.746	16.746
2	2.143	8.574	25.320	2.143	8.574	25.320
3	1.526	6.104	31.423	1.526	6.104	31.423
4	1.452	5.807	37.230	1.452	5.807	37.230
5	1.219	4.874	42.105	1.219	4.874	42.105
6	1.156	4.622	46.727	1.156	4.622	46.727
7	1.074	4.297	51.024	1.074	4.297	51.024
8	1.043	4.171	55.194	1.043	4.171	55.194
9	.991	3.963	59.158			
10	.901	3.605	62.763			
11	.861	3.442	66.205			
12	.841	3.364	69.569			
13	.809	3.238	72.807			
14	.783	3.131	75.938			
15	.727	2.909	78.847			
16	.674	2.695	81.542			
17	.650	2.600	84.143			
18	.627	2.507	86.650			
19	.613	2.452	89.102			
20	.556	2.222	91.324			
21	.517	2.069	93.393			
22	.491	1.964	95.356			
23	.439	1.754	97.111			
24	.389	1.554	98.665			
25	.334	1.335	100.000			

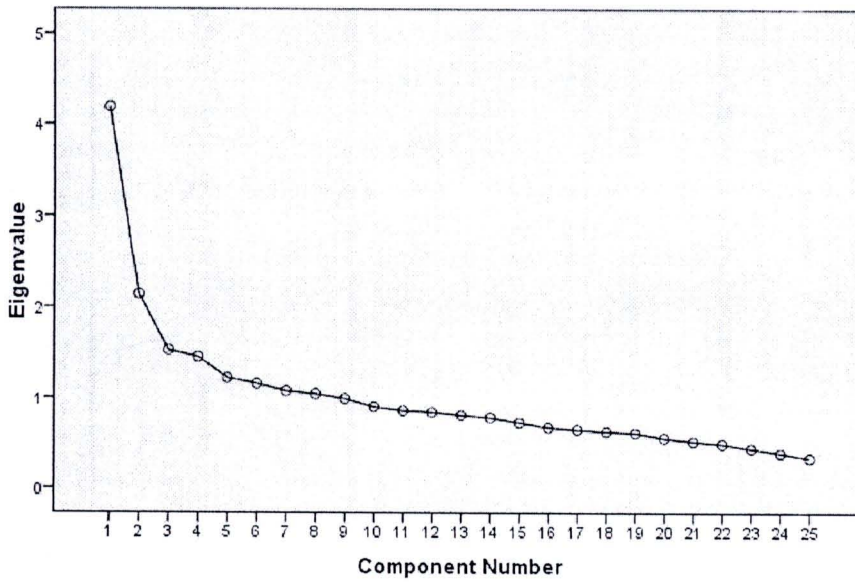
Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component							
	1	2	3	4	5	6	7	8
Company Financial Support for Safety Issue	.697							
Safety Workplace Environment	.673							
Safety Management System	.661							
Company Vision about Safety	.613							
Practical of Safety Regulation and Procedure	.599							
Awareness of Top Manager in Safety	.596			-.337				
Awareness of Owner in Safety	.562			-.413				
Workers' Safety Behavior	.531							
Safety Knowledge	.435	.334						
Difficulty to control worker	.385				-.322			-.382
Age		.745						
Experience As Supervisor		.721						
Train		.481						.470
Recognition of Government and Neighborhoods about Safety	.316		.397					
Weather Conditions at Construction Site			.394					
Project Scale	.307	.300	-.364					
Safety Remind from Family			.333			-.302		
Workload Assigned in Project			.475	.566				
Project Schedule	-.345	-.308	.397	.429				
Education Background				.377	.332	-.328	.361	
Drinking Habits					.618	.325		
Smoking Habits					.553			-.538
Salary Satisfaction						.792		
Project Owner Type			-.340				-.499	
Safety Attitude of Coworker	.389						.424	

Extraction Method: Principal Component Analysis.

a. 8 components extracted.



Rotated Component Matrix^a

	Component							
	1	2	3	4	5	6	7	8
Safety Workplace Environment	.730							
Safety Management System	.722							
Company Financial Support for Safety Issue	.710							
Practical of Safety Regulation and Procedure	.703							
Company Vision about Safety	.526				.341			
Project Owner Type	.519				-.419			
Workers' Safety Behavior	.494							
Age		.855						
Experience As Supervisor		.818						
Train		.420					-.351	
Safety Knowledge		.358						
Recognition of Government and Neighborhoods about Safety			.620					
Safety Remind from Family			.585					

Rotated Component Matrix^a

	Component							
	1	2	3	4	5	6	7	8
Awareness of Owner in Safety			.569	-.313				
Awareness of Top Manager in Safety	.382		.484					
Workload Assigned in Project				.800				
Project Schedule				.756				
Difficulty to control worker	.304				.624			
Weather Conditions at Construction Site					.564			
Education Background						.687		
Project Scale						.485	-.360	
Safety Attitude of Coworker			.374			.403		
Smoking Habits							.802	
Salary Satisfaction								.767
Drinking Habits							.329	.627

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 17 iterations.

Total Variance Explained

Component	Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %
1	3.373	13.493	13.493
2	1.968	7.873	21.367
3	1.811	7.244	28.611
4	1.613	6.451	35.062
5	1.403	5.612	40.673
6	1.259	5.035	45.709
7	1.199	4.795	50.504
8	1.173	4.691	55.194

Extraction Method: Principal Component Analysis.

Component Transformation Matrix

Component	1	2	3	4	5	6	7	8
1	.830	.200	.390	-.220	.243	.094	-.052	.000
2	-.285	.822	-.040	-.301	-.066	.245	-.281	-.088
3	-.285	.242	.549	.530	.464	-.237	.009	.077
4	.291	.217	-.536	.650	.134	.368	-.012	.069
5	-.006	.175	.280	.080	-.477	.265	.579	.502
6	-.010	.045	-.298	-.251	.335	-.284	-.122	.799
7	-.249	-.340	.152	-.179	.421	.760	-.040	.104
8	.051	-.175	.259	.236	-.432	.102	-.753	.284

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

APPENDIX D
MODEL RESULTS FROM AMOS PROGRAM

D1. Final Perception Model Results for Explaining Supervisor's Behavior Based on Their Perception

Regression Weights: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Behavioral Intention	<--- e24	2.233	.182	12.266	***	
Behavioral Intention	<--- Personal Background & Safety Knowledge	.465	.173	2.447	.013	
Behavioral Intention	<--- Project Characteristics & Work Assignment	.800	.290	1.422	.103	
Behavioral Intention	<--- Project Stakeholder Influence	-.484	.237	-1.435	.101	
Behavior	<--- Behavioral Intention	.037	.013	2.888	.004	
Behavior	<--- e23	.241	.062	3.860	***	
Behavior	<--- Organizational & Management Influence	.163	.054	2.995	.003	
S1	<--- Behavioral Intention	.950	.089	10.681	***	
S2	<--- Behavioral Intention	.718	.090	8.001	***	
S3	<--- Behavioral Intention	1.040	.093	11.127	***	
S4	<--- Behavioral Intention	1.141	.094	12.106	***	
S5	<--- Behavioral Intention	1.100	.095	11.547	***	
S6	<--- Behavioral Intention	1.101	.091	12.121	***	
S7	<--- Behavioral Intention	1.219	.093	13.158	***	
S8	<--- Behavioral Intention	.808	.083	9.791	***	
S9	<--- Behavioral Intention	.941	.086	10.960	***	
S10	<--- Behavioral Intention	1.000				
P12	<--- Behavior	1.000				
P11	<--- Behavior	.777	.225	3.449	***	
P10	<--- Behavior	1.338	.403	3.318	***	
P9	<--- Behavior	1.684	.498	3.380	***	
P8	<--- Behavior	1.437	.379	3.793	***	
P7	<--- Behavior	1.871	.512	3.656	***	
P6	<--- Behavior	2.323	.618	3.758	***	
P5	<--- Behavior	2.164	.582	3.715	***	
P4	<--- Behavior	1.797	.510	3.526	***	
P3	<--- Behavior	2.311	.627	3.686	***	
P2	<--- Behavior	1.846	.534	3.454	***	
P1	<--- Behavior	1.923	.547	3.517	***	
F20	<--- Organizational &	1.000				

		Estimate	S.E.	C.R.	P	Label
	Management Influence					
F21	<--- Organizational & Management Influence	.891	.107	8.317	***	
F24	<--- Organizational & Management Influence	1.057	.131	8.101	***	
F25	<--- Organizational & Management Influence	.878	.120	7.300	***	
F23	<--- Organizational & Management Influence	.995	.121	8.236	***	
F22	<--- Organizational & Management Influence	.979	.118	8.311	***	
F15	<--- Project Characteristics & Work Assignment	1.000				
F19	<--- Project Characteristics & Work Assignment	1.554	.309	5.025	***	
F16	<--- Project Characteristics & Work Assignment	1.870	.350	5.350	***	
F18	<--- Project Characteristics & Work Assignment	1.997	.364	5.484	***	
F17	<--- Project Characteristics & Work Assignment	1.901	.347	5.485	***	
F11	<--- Project Stakeholder Influence	1.000				
F14	<--- Project Stakeholder Influence	1.055	.169	6.246	***	
F12	<--- Project Stakeholder Influence	1.549	.207	7.477	***	
F13	<--- Project Stakeholder Influence	1.519	.205	7.423	***	
F2	<--- Personal Background & Safety Knowledge	1.000				
F6	<--- Personal Background & Safety Knowledge	1.007	.204	4.928	***	
F4	<--- Personal Background & Safety Knowledge	1.356	.236	5.755	***	
F3	<--- Personal Background & Safety Knowledge	1.390	.238	5.835	***	

Standardized Regression Weights: (Group number 1 - Default model)

		Estimate
Behavioral Intention	<--- e24	.981
Behavioral Intention	<--- Personal Background & Safety Knowledge	.106
Behavioral Intention	<--- Project Characteristics & Work Assignment	.158
Behavioral Intention	<--- Project Stakeholder Influence	-.127
Behavior	<--- Behavioral Intention	.303
Behavior	<--- e23	.869
Behavior	<--- Organizational & Management Influence	.366
S1	<--- Behavioral Intention	.721
S2	<--- Behavioral Intention	.542
S3	<--- Behavioral Intention	.752
S4	<--- Behavioral Intention	.820
S5	<--- Behavioral Intention	.781
S6	<--- Behavioral Intention	.821
S7	<--- Behavioral Intention	.781
S8	<--- Behavioral Intention	.662
S9	<--- Behavioral Intention	.741
S10	<--- Behavioral Intention	.712
P12	<--- Behavior	.275
P11	<--- Behavior	.202
P10	<--- Behavior	.347
P9	<--- Behavior	.434
P8	<--- Behavior	.381
P7	<--- Behavior	.590
P6	<--- Behavior	.696
P5	<--- Behavior	.649
P4	<--- Behavior	.511
P3	<--- Behavior	.618
P2	<--- Behavior	.466
P1	<--- Behavior	.505
F20	<--- Organizational & Management Influence	.644
F21	<--- Organizational & Management Influence	.574
F24	<--- Organizational & Management Influence	.671
F25	<--- Organizational & Management Influence	.590
F23	<--- Organizational & Management Influence	.718
F22	<--- Organizational & Management Influence	.727

		Estimate
F15	<--- Project Characteristics & Work Assignment	.384
F19	<--- Project Characteristics & Work Assignment	.572
F16	<--- Project Characteristics & Work Assignment	.690
F18	<--- Project Characteristics & Work Assignment	.760
F17	<--- Project Characteristics & Work Assignment	.761
F11	<--- Project Stakeholder Influence	.492
F14	<--- Project Stakeholder Influence	.568
F12	<--- Project Stakeholder Influence	.866
F13	<--- Project Stakeholder Influence	.824
F2	<--- Personal Background & Safety Knowledge	.423
F6	<--- Personal Background & Safety Knowledge	.495
F4	<--- Personal Background & Safety Knowledge	.729
F3	<--- Personal Background & Safety Knowledge	.791

Covariances: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Project Stakeholder Influence	Personal Background & Safety Knowledge	.093	.031	2.977	.003	
Organizational & Management Influence	Project Characteristics & Work Assignment	.088	.028	3.087	.002	
Organizational & Management Influence	Project Stakeholder Influence	.101	.033	3.036	.002	
Project Characteristics & Work Assignment	Project Stakeholder Influence	.128	.034	3.770	***	
Organizational & Management Influence	Personal Background & Safety Knowledge	.215	.048	4.475	***	
Project Characteristics & Work Assignment	Personal Background & Safety Knowledge	.086	.028	3.082	.002	
e1	<--> e2	1.422	.373	3.817	***	
e8	<--> e9	1.706	.317	5.384	***	
e22	<--> e21	.587	.076	7.691	***	
e22	<--> e20	.120	.050	2.405	.016	
e21	<--> e18	.221	.064	3.454	***	
e20	<--> e19	.262	.064	4.120	***	
e19	<--> e18	.317	.062	5.075	***	

		Estimate	S.E.	C.R.	P	Label
e15	<--> e14	.133	.047	2.814	.005	
e12	<--> e11	.264	.063	4.166	***	
e13	<--> e11	.148	.054	2.759	.006	
z6	<--> z5	.134	.048	2.791	.005	
z4	<--> z3	.215	.048	4.491	***	
z2	<--> z1	.092	.036	2.545	.011	
z11	<--> z12	-.189	.054	-3.502	***	
e7	<--> e10	1.117	.383	2.919	.004	
e2	<--> e3	.895	.358	2.500	.012	
e22	<--> e18	.274	.061	4.506	***	

Correlations: (Group number 1 - Default model)

		Estimate
Project Stakeholder Influence	<--> Personal Background & Safety Knowledge	.299
Organizational & Management Influence	<--> Project Characteristics & Work Assignment	.313
Organizational & Management Influence	<--> Project Stakeholder Influence	.272
Project Characteristics & Work Assignment	<--> Project Stakeholder Influence	.477
Organizational & Management Influence	<--> Personal Background & Safety Knowledge	.660
Project Characteristics & Work Assignment	<--> Personal Background & Safety Knowledge	.365
e1	<--> e2	.270
e8	<--> e9	.422
e22	<--> e21	.580
e22	<--> e20	.123
e21	<--> e18	.219
e20	<--> e19	.269
e19	<--> e18	.337
e15	<--> e14	.225
e12	<--> e11	.298
e13	<--> e11	.200
z6	<--> z5	.227
z4	<--> z3	.393
z2	<--> z1	.266
z11	<--> z12	-.280
e7	<--> e10	.225
e2	<--> e3	.170

		Estimate
e22	<--> e18	.292

Variances: (Group number 1 - Default model)

	Estimate	S.E.	C.R.	P	Label
e23	1.000				
e24	1.000				
Organizational & Management Influence	.389	.078	4.992	***	
Project Characteristics & Work Assignment	.203	.071	2.850	.004	
Project Stakeholder Influence	.358	.094	3.796	***	
Personal Background & Safety Knowledge	.272	.088	3.073	.002	
e1	4.313	.434	9.933	***	
e2	6.420	.609	10.541	***	
e3	4.304	.442	9.728	***	
e4	3.292	.365	9.020	***	
e5	4.016	.424	9.483	***	
e6	3.043	.338	9.005	***	
e7	4.919	.523	9.404	***	
e8	4.342	.426	10.181	***	
e9	3.772	.385	9.790	***	
e10	5.030	.509	9.887	***	
e22	.942	.087	10.809	***	
e21	1.089	.101	10.836	***	
e20	1.006	.095	10.595	***	
e19	.943	.090	10.436	***	
e18	.938	.088	10.626	***	
e17	.505	.053	9.481	***	
e16	.441	.053	8.337	***	
e15	.496	.056	8.849	***	
e14	.703	.072	9.830	***	
e13	.665	.072	9.207	***	
e12	.945	.093	10.179	***	
e11	.830	.083	9.958	***	
z6	.549	.061	8.960	***	
z5	.629	.066	9.511	***	
z4	.531	.061	8.696	***	
z3	.563	.060	9.398	***	
z2	.361	.047	7.656	***	

	Estimate	S.E.	C.R.	P	Label
z1	.332	.044	7.532	***	
z11	1.169	.111	10.546	***	
z10	1.003	.102	9.801	***	
z9	.780	.089	8.770	***	
z8	.589	.077	7.623	***	
z7	.530	.070	7.601	***	
z15	1.119	.108	10.395	***	
z14	.837	.083	10.114	***	
z13	.286	.057	5.009	***	
z12	.390	.062	6.315	***	
z19	1.246	.120	10.346	***	
z18	.850	.085	10.044	***	
z17	.441	.059	7.511	***	
z16	.314	.052	6.052	***	

Squared Multiple Correlations: (Group number 1 - Default model)

	Estimate
Behavioral Intention	.038
Behavior	.244
F3	.626
F4	.531
F6	.245
F2	.179
F13	.679
F12	.750
F14	.323
F11	.242
F17	.580
F18	.578
F16	.476
F19	.328
F15	.148
F22	.528
F23	.516
F25	.348
F24	.450
F21	.329
F20	.414
P1	.255
P2	.217

	Estimate
P3	.382
P4	.261
P5	.421
P6	.485
P7	.348
P8	.145
P9	.188
P10	.120
P11	.041
P12	.076
S10	.507
S9	.549
S8	.438
S7	.610
S6	.674
S5	.610
S4	.672
S3	.565
S2	.294
S1	.520

Model Fit Summary

CMIN

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	110	1100.193	751	.000	1.465
Saturated model	861	.000	0		
Independence model	41	4764.770	820	.000	5.811

RMR, GFI

Model	RMR	GFI	AGFI	PGFI
Default model	.146	.822	.796	.717
Saturated model	.000	1.000		
Independence model	1.262	.350	.318	.334

Baseline Comparisons

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Default model	.769	.748	.913	.903	.911

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

Parsimony-Adjusted Measures

Model	PRATIO	PNFI	PCFI
Default model	.916	.704	.835
Saturated model	.000	.000	.000
Independence model	1.000	.000	.000

NCP

Model	NCP	LO 90	HI 90
Default model	349.193	264.600	441.772
Saturated model	.000	.000	.000
Independence model	3944.770	3731.270	4165.620

FMIN

Model	FMIN	F0	LO 90	HI 90
Default model	4.584	1.455	1.102	1.841
Saturated model	.000	.000	.000	.000
Independence model	19.853	16.437	15.547	17.357

RMSEA

Model	RMSEA	LO 90	HI 90	PCLOSE
Default model	.044	.038	.050	.964
Independence model	.142	.138	.145	.000

AIC

Model	AIC	BCC	BIC	CAIC
Default model	1320.193	1366.859	1703.520	1813.520
Saturated model	1722.000	2087.273	4722.410	5583.410
Independence model	4846.770	4864.164	4989.647	5030.647

ECVI

Model	ECVI	LO 90	HI 90	MECVI
Default model	5.501	5.148	5.887	5.695
Saturated model	7.175	7.175	7.175	8.697

Model	ECVI	LO 90	HI 90	MECVI
Independence model	20.195	19.305	21.115	20.267

HOELTER

Model	HOELTER .05	HOELTER .01
Default model	178	185
Independence model	45	47

D2. Final Practice Model Results for Explaining Supervisor’s Behavior Based on Actual Practice

Regression Weights: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Behavioral Intention	<--- e24	2.347	.180	13.028	***	
Behavioral Intention	<--- Personal Background & Safety Knowledge	.226	.347	2.455	.015	
Behavioral Intention	<--- Project Workload	-.652	.435	-1.629	.104	
Behavior	<--- Behavioral Intention	.048	.014	3.356	***	
Behavior	<--- e23	.329	.063	5.243	***	
Behavior	<--- Personal Background & Safety Knowledge	.112	.065	1.620	.085	
Behavior	<--- Project Stakeholder & Family Influence	.194	.309	2.127	.031	
Behavior	<--- Weather & Worker Control	.527	.314	1.679	.093	
Behavior	<--- Organizational & Management Influence	.257	.159	1.615	.106	
S1	<--- Behavioral Intention	.887	.082	10.814	***	
S2	<--- Behavioral Intention	.676	.084	8.008	***	
S3	<--- Behavioral Intention	.948	.086	10.988	***	
S4	<--- Behavioral Intention	1.073	.087	12.283	***	
S5	<--- Behavioral Intention	1.031	.088	11.771	***	
S6	<--- Behavioral Intention	1.076	.083	12.994	***	
S7	<--- Behavioral Intention	1.197	.096	12.476	***	
S8	<--- Behavioral Intention	.794	.076	10.415	***	
S9	<--- Behavioral Intention	.919	.079	11.694	***	
S10	<--- Behavioral Intention	1.000				
P12	<--- Behavior	1.000				
P11	<--- Behavior	.806	.164	4.909	***	
P10	<--- Behavior	1.114	.279	3.993	***	
P9	<--- Behavior	1.423	.319	4.464	***	

		Estimate	S.E.	C.R.	P	Label
P8	<--- Behavior	1.380	.315	4.382	***	
P7	<--- Behavior	1.397	.291	4.807	***	
P6	<--- Behavior	1.685	.337	5.001	***	
P5	<--- Behavior	1.559	.320	4.867	***	
P4	<--- Behavior	1.129	.274	4.127	***	
P3	<--- Behavior	1.508	.324	4.656	***	
P2	<--- Behavior	1.174	.290	4.043	***	
P1	<--- Behavior	1.212	.289	4.191	***	
Q15	<--- Organizational & Management Influence	1.000				
Q21	<--- Organizational & Management Influence	.567	.152	3.725	***	
Q27	<--- Organizational & Management Influence	1.286	.207	6.209	***	
Q25	<--- Organizational & Management Influence	.884	.149	5.931	***	
Q24	<--- Organizational & Management Influence	1.088	.179	6.081	***	
Q26	<--- Organizational & Management Influence	1.132	.188	6.037	***	
Q4SupExp	<--- Personal Background & Safety Knowledge	1.000				
Age	<--- Personal Background & Safety Knowledge	.974	.152	6.424	***	
Q13	<--- Project Stakeholder & Family Influence	1.000				
Q18	<--- Project Stakeholder & Family Influence	.962	.394	2.441	.015	
Q16	<--- Project Stakeholder & Family Influence	2.570	.814	3.158	.002	
Q17	<--- Project Stakeholder & Family Influence	2.607	.826	3.156	.002	
Q28	<--- Organizational & Management Influence	1.118	.195	5.721	***	
Train	<--- Personal Background & Safety Knowledge	.472	.089	5.278	***	
Q8	<--- Personal Background & Safety Knowledge	.369	.098	3.762	***	
Q22	<--- Project Workload	1.000				
Q23	<--- Project Workload	.612	.166	3.689	***	
Q19	<--- Weather & Worker Control	5.210	5.800	.898	.369	
Q10	<--- Weather & Worker Control	1.000				

Standardized Regression Weights: (Group number 1 - Default model)

			Estimate
Behavioral Intention	<---	e24	.991
Behavioral Intention	<---	Personal Background & Safety Knowledge	.049
Behavioral Intention	<---	Project Workload	-.128
Behavior	<---	Behavioral Intention	.302
Behavior	<---	e23	.870
Behavior	<---	Personal Background & Safety Knowledge	.153
Behavior	<---	Project Stakeholder & Family Influence	.093
Behavior	<---	Weather & Worker Control	.153
Behavior	<---	Organizational & Management Influence	.227
S1	<---	Behavioral Intention	.701
S2	<---	Behavioral Intention	.529
S3	<---	Behavioral Intention	.715
S4	<---	Behavioral Intention	.803
S5	<---	Behavioral Intention	.762
S6	<---	Behavioral Intention	.835
S7	<---	Behavioral Intention	.799
S8	<---	Behavioral Intention	.677
S9	<---	Behavioral Intention	.753
S10	<---	Behavioral Intention	.742
P12	<---	Behavior	.370
P11	<---	Behavior	.286
P10	<---	Behavior	.392
P9	<---	Behavior	.500
P8	<---	Behavior	.491
P7	<---	Behavior	.601
P6	<---	Behavior	.690
P5	<---	Behavior	.638
P4	<---	Behavior	.440
P3	<---	Behavior	.552
P2	<---	Behavior	.404
P1	<---	Behavior	.434
Q15	<---	Organizational & Management Influence	.460
Q21	<---	Organizational & Management Influence	.308
Q27	<---	Organizational & Management Influence	.681
Q25	<---	Organizational & Management Influence	.627
Q24	<---	Organizational & Management Influence	.660
Q26	<---	Organizational & Management Influence	.636
Q4SupExp	<---	Personal Background & Safety Knowledge	.690
Age	<---	Personal Background & Safety Knowledge	.836

		Estimate
Q13	<--- Project Stakeholder & Family Influence	.252
Q18	<--- Project Stakeholder & Family Influence	.263
Q16	<--- Project Stakeholder & Family Influence	.658
Q17	<--- Project Stakeholder & Family Influence	.654
Q28	<--- Organizational & Management Influence	.569
Train	<--- Personal Background & Safety Knowledge	.392
Q8	<--- Personal Background & Safety Knowledge	.276
Q22	<--- Project Workload	.784
Q23	<--- Project Workload	.511
Q19	<--- Weather & Worker Control	.950
Q10	<--- Weather & Worker Control	.193

Covariances: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Project Stakeholder & Family Influence	<--> Project Workload	-.033	.013	-2.535	.011	
Personal Background & Safety Knowledge	<--> Project Stakeholder & Family Influence	.022	.010	2.107	.035	
Project Workload	<--> Weather & Worker Control	.012	.014	.865	.387	
Organizational & Management Influence	<--> Project Stakeholder & Family Influence	.040	.014	2.808	.005	
Organizational & Management Influence	<--> Project Workload	-.053	.016	-3.316	***	
e22	<--> e21	.554	.075	7.417	***	
e8	<--> e9	1.545	.306	5.047	***	
z5	<--> z4	.038	.020	1.889	.059	
z3	<--> z2	.032	.013	2.423	.015	
z6	<--> z11	.064	.028	2.277	.023	
e14	<--> e13	.112	.051	2.207	.027	
e4	<--> e5	.705	.324	2.179	.029	
e3	<--> e4	.658	.301	2.185	.029	
e4	<--> e6	-.496	.253	-1.961	.050	
z14	<--> z11	.072	.028	2.583	.010	
z19	<--> z10	-.059	.021	-2.779	.005	
z6	<--> z8	.059	.020	2.883	.004	

		Estimate	S.E.	C.R.	P	Label
e19	<--> e14	-.104	.051	-2.061	.039	
e18	<--> e14	-.130	.055	-2.368	.018	
e14	<--> e11	.164	.051	3.182	.001	
e12	<--> e11	.333	.068	4.903	***	
e13	<--> e11	.248	.061	4.053	***	
e19	<--> e18	.281	.064	4.360	***	
e20	<--> e19	.219	.061	3.611	***	
e15	<--> e14	.160	.048	3.350	***	
e18	<--> e15	-.127	.046	-2.730	.006	
e1	<--> e3	.928	.337	2.750	.006	
e1	<--> e2	1.725	.401	4.298	***	
e2	<--> e3	1.394	.395	3.530	***	
e13	<--> e12	.167	.062	2.716	.007	

Correlations: (Group number 1 - Default model)

		Estimate
Project Stakeholder & Family Influence	<--> Project Workload	-.389
Personal Background & Safety Knowledge	<--> Project Stakeholder & Family Influence	.231
Project Workload	<--> Weather & Worker Control	.246
Organizational & Management Influence	<--> Project Stakeholder & Family Influence	.660
Organizational & Management Influence	<--> Project Workload	-.342
e22	<--> e21	.572
e8	<--> e9	.397
z5	<--> z4	.143
z3	<--> z2	.210
z6	<--> z11	.152
e14	<--> e13	.149
e4	<--> e5	.180
e3	<--> e4	.159
e4	<--> e6	-.157
z14	<--> z11	.171
z19	<--> z10	-.186
z6	<--> z8	.278
e19	<--> e14	-.129
e18	<--> e14	-.162
e14	<--> e11	.199
e12	<--> e11	.350
e13	<--> e11	.303

		Estimate
e19	<--> e18	.326
e20	<--> e19	.238
e15	<--> e14	.259
e18	<--> e15	-.193
e1	<--> e3	.198
e1	<--> e2	.314
e2	<--> e3	.247
e13	<--> e12	.193

Variances: (Group number 1 - Default model)

	Estimate	S.E.	C.R.	P	Label
e23	1.000				
e24	1.000				
Organizational & Management Influence	.111	.032	3.454	***	
Personal Background & Safety Knowledge	.265	.057	4.642	***	
Project Stakeholder & Family Influence	.033	.020	1.659	.097	
Project Workload	.215	.063	3.435	***	
Weather & Worker Control	.012	.015	.796	.426	
e1	4.572	.457	9.996	***	
e2	6.614	.627	10.554	***	
e3	4.824	.492	9.815	***	
e4	3.557	.426	8.359	***	
e5	4.314	.458	9.424	***	
e6	2.813	.336	8.383	***	
e7	4.566	.494	9.238	***	
e8	4.179	.414	10.092	***	
e9	3.616	.374	9.663	***	
e10	4.592	.469	9.781	***	
e22	.900	.086	10.522	***	
e21	1.042	.097	10.708	***	
e20	.974	.093	10.449	***	
e19	.868	.086	10.054	***	
e18	.855	.087	9.773	***	
e17	.492	.052	9.388	***	
e16	.446	.053	8.409	***	
e15	.505	.057	8.817	***	
e14	.755	.075	10.042	***	
e13	.742	.076	9.710	***	
e12	1.008	.097	10.379	***	
e11	.901	.087	10.340	***	

	Estimate	S.E.	C.R.	P	Label
z6	.411	.040	10.219	***	
z5	.340	.032	10.598	***	
z4	.211	.025	8.508	***	
z3	.133	.015	8.883	***	
z2	.170	.020	8.569	***	
z1	.209	.023	9.064	***	
z9	.292	.046	6.378	***	
z8	.108	.037	2.950	.003	
z15	.486	.046	10.641	***	
z14	.408	.038	10.611	***	
z13	.284	.040	7.150	***	
z12	.298	.041	7.228	***	
z19	.310	.031	9.975	***	
z18	.035	.347	.101	.919	
z7	.289	.030	9.632	***	
z10	.324	.031	10.356	***	
z11	.437	.041	10.693	***	
z17	.135	.057	2.387	.017	
z16	.228	.029	7.744	***	

Squared Multiple Correlations: (Group number 1 - Default model)

	Estimate
Behavioral Intention	.019
Behavior	.243
Q23	.261
Q22	.614
Q8	.076
Train	.154
Q28	.323
Q19	.902
Q10	.037
Q17	.428
Q16	.433
Q18	.069
Q13	.063
Age	.699
Q4SupExp	.476
Q26	.404
Q24	.435
Q25	.393

	Estimate
Q27	.464
Q21	.095
Q15	.212
P1	.189
P2	.163
P3	.304
P4	.194
P5	.407
P6	.476
P7	.361
P8	.241
P9	.250
P10	.154
P11	.082
P12	.137
S10	.550
S9	.567
S8	.459
S7	.638
S6	.698
S5	.580
S4	.645
S3	.511
S2	.280
S1	.491

Covariances: (Group number 1 - Default model)

	M.I.	Par Change
z11 <--> Organizational & Management Influence	5.896	.034
z10 <--> z11	6.204	.060
z7 <--> Weather & Worker Control	7.458	.011
z18 <--> z7	5.342	.048
z19 <--> Organizational & Management Influence	17.595	.049
z19 <--> z16	4.357	.037
z15 <--> Project Workload	5.739	.058
z15 <--> Personal Background & Safety Knowledge	6.131	-.064
z1 <--> Project Stakeholder & Family Influence	5.199	-.014
z1 <--> e23	5.825	-.090
z1 <--> z13	9.198	-.058

	M.I.	Par Change
z2 <--> z7	6.017	-.038
z2 <--> z13	5.780	.040
z3 <--> z10	4.268	.028
z4 <--> z11	4.214	.043
z5 <--> z19	4.352	-.043
e11 <--> z10	4.356	-.065
e11 <--> z15	4.353	-.080
e11 <--> z6	6.427	-.089
e12 <--> z16	4.845	.068
e12 <--> z15	4.559	.091
e12 <--> z8	9.426	-.086
e14 <--> e24	5.516	.128
e14 <--> z16	6.129	.066
e15 <--> e11	6.543	.101
e16 <--> e13	4.663	.085
e17 <--> z17	5.193	.057
e18 <--> Organizational & Management Influence	6.960	.050
e18 <--> z8	7.541	.073
e18 <--> z9	4.497	-.073
e19 <--> z8	5.607	-.060
e20 <--> e24	6.172	-.162
e21 <--> z11	4.029	.071
e21 <--> z6	4.530	-.074
e22 <--> z14	6.551	.082
e22 <--> z6	12.710	.116
e22 <--> e16	6.742	-.097
e22 <--> e18	10.391	.144
e22 <--> e20	5.972	.119
e10 <--> e23	4.391	.359
e10 <--> z14	4.096	.187
e10 <--> e17	11.951	.374
e9 <--> e17	11.052	.287
e9 <--> e19	5.401	-.230
e9 <--> e10	4.474	.551
e8 <--> z3	5.346	.105
e8 <--> e19	8.741	.308
e7 <--> Personal Background & Safety Knowledge	4.719	-.184
e7 <--> z19	6.238	-.204
e7 <--> z14	7.640	-.261
e7 <--> e11	6.707	.325
e7 <--> e10	7.213	.892

	M.I.	Par Change
e6 <--> e21	4.714	.221
e5 <--> z14	4.692	-.188
e4 <--> z2	4.035	.107
e4 <--> e15	7.766	-.253
e4 <--> e16	5.311	.213
e3 <--> Weather & Worker Control	5.071	.035
e3 <--> z18	4.692	.169
e2 <--> z11	4.045	-.203
e2 <--> z14	4.199	.202
e1 <--> z10	5.441	-.177
e1 <--> e10	4.236	-.615
e1 <--> e4	7.440	.701

Model Fit Summary

CMIN

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	119	961.351	742	.000	1.296
Saturated model	861	.000	0		
Independence model	41	3934.588	820	.000	4.798

RMR, GFI

Model	RMR	GFI	AGFI	PGFI
Default model	.130	.841	.815	.725
Saturated model	.000	1.000		
Independence model	1.252	.395	.365	.376

Baseline Comparisons

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Default model	.756	.730	.931	.922	.930
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

Parsimony-Adjusted Measures

Model	PRATIO	PNFI	PCFI
Default model	.905	.684	.841
Saturated model	.000	.000	.000

Model	PRATIO	PNFI	PCFI
Independence model	1.000	.000	.000

NCP

Model	NCP	LO 90	HI 90
Default model	219.351	143.455	303.364
Saturated model	.000	.000	.000
Independence model	3114.588	2922.927	3313.669

FMIN

Model	FMIN	F0	LO 90	HI 90
Default model	4.006	.914	.598	1.264
Saturated model	.000	.000	.000	.000
Independence model	16.394	12.977	12.179	13.807

RMSEA

Model	RMSEA	LO 90	HI 90	PCLOSE
Default model	.035	.028	.041	1.000
Independence model	.126	.122	.130	.000

AIC

Model	AIC	BCC	BIC	CAIC
Default model	1199.351	1249.836	1614.042	1733.042
Saturated model	1722.000	2087.273	4722.410	5583.410
Independence model	4016.588	4033.982	4159.465	4200.465

ECVI

Model	ECVI	LO 90	HI 90	MECVI
Default model	4.997	4.681	5.347	5.208
Saturated model	7.175	7.175	7.175	8.697
Independence model	16.736	15.937	17.565	16.808

HOELTER

Model	HOELTER .05	HOELTER .01
Default model	202	209
Independence model	55	56

BIOGRAPHY

Thu Anh Nguyen, raised in Vietnam, graduated her bachelor degree in 2007 from Hochiminh City University of Technology. Since then, she has been a lecture of Faculty of Engineering, HCMUT, in Vietnam. She has been granted the scholarship by Thai Petroleum Company for continuous her master degree. She entered Chulalongkorn University on autumn 2008 as a Civil Engineering major, with an emphasis in Construction Engineering and Management. The topics related to construction management that she interested in are safety management in construction and contracting in construction business.



