Analysis on Subjective Questions of Engineering

Professional Questionnaire (Engineering Degree Personnel)

A total of 71 engineering degree personnel, in the 71 questionnaires, the answers are as following:

22: What do you think about engineers’ promotion opportunity? And what concerns do you have about your career development?

A total of 71 questionnaires, and 8 people did not answer, we have 63 valid questionnaires.

24 people have confidence and are more satisfied with the career development space, the proportion is 38.10%. 1/3 people are satisfied with it, so we can see that they have low level of awareness and less confidence in engineering professional.

30 people expressed less satisfaction for career development prospects and future, career development space is small and take the proportion of 47.62%, nearly half of the engineering degree personnel are not satisfied with their career development and without confidence to future;

9 people expressed the general attitude to occupational space, they do not understand it very much and showing indifferent attitude to it, the proportion was 14.29%. These people expressed insensitive attitude and in drift along status. If combine the last two awareness and attitudes, reflecting the professional attitudes of engineers for the project and the number of people who awareness not satisfied and indifferent will rise to 39, take the total percentage of 61.90%, meanwhile more than half of the number people express worried about the development and future of engineering trade.

23. Where do you think that engineers can get their achievability and self-identity?

A total of 71 questionnaires, and 6 people did not answer, we have 65 valid questionnaires.

5 people focusing on material benefits and salary income, the proportion of 7.69%;

16 people pay attention to the superior, peers, colleagues, customers or the company's evaluation and approval, the proportion of 24.62%;

40 people pay attention to technological breakthroughs, engineering problems solving, process optimization, personal interests and hobbies, individuals’ ability improving, the proportion of 61.54%.

And the sense of accomplishment is not strong with indifferent attitude, the proportion of 7.69%.

24. Do you know the technical standards and code of conducts of your engineering profession? Do you believe that engineers of your engineering profession will comply with the relevant technical standards, why?

A total of 71 questionnaires, and 6 people did not answer, we have 65 valid questionnaires.

2 people very familiar and understand career development, the proportion of 3.23%; the proportion is low and need to strengthen vocational technical standards or codes of conduct propaganda;

49 people basically understand career development, the proportion of 75.38%, if coupled with a very partial understanding, the proportion of 78.61%, it occupy a large proportion; it is shows that engineers have a certain understanding for technical standards or codes of conduct;

14 people do not understand career development, the proportion was 21.54%, it is nearly 1/5 of the people, takes a large proportion.

Overall, the proportion of technical standards and norms of behavior understanding reached 78.61%, indicating that the engineer for the professional awareness is still at a higher level. However, in-depth understanding people take low proportion, which shows still need to strengthen publicity and deepen engineer understanding for technical standards and other aspects of knowledge.

On the question of whether compliance with these standards, regardless of whether understand the technical standards or not, all engineers believe the technical standards are professional ethics, it is the basic bottom line of engineering technology, product safety and essential requirements of customers are expected to follow. But there are some engineers made in complying with technical standards, will face considerable difficulties and factors, such as interference by leaders, project schedule requirements, stakeholder and relationships influence, etc., it will make technical standards in engineering practice appearing considerable deviations or kinds of problems.

25. Do you think your engineering profession needs the ethical norms and ethical codes, why?

A total of 71 questionnaires, and 7 people did not answer, we have 64 valid questionnaires.

50 people expressed they need the ethical norms and ethical codes, the proportion of 78.13%, showing that the majority of engineers still need ethical norms;

8 people don’t need the ethical norms and ethical codes, the proportion of 12.5%;

6 people are not for sure and do not understand, the proportion of 9.38%.

Overall, most of the engineers need ethical norms and ethical codes. But for ethics awareness and requirements reasons are different.

The corresponding analysis of subjective questions, see the previous analysis overview of subjective questions.