

Survey

This is a summary of the results from the Work Experience Competency Survey launched by Engineers Canada on May 2011. The survey was initiated to validate the eight [core engineering competencies](#) that had been developed to by the Alternative Methods project team. Licensed professional engineers from across the country were asked to indicate whether they agreed that these competencies were critical for the safe practice of professional engineering in Canada.

In total there were 337 respondents from 13 provinces and territories, representing over 22 different engineering disciplines. Survey respondents included engineers with varying levels of engineering experience.

The survey asked respondents to read the competencies and evaluate each competency based on two criteria:

1. The degree to which the competency was important for the safe practice of professional engineering
2. The risk of adverse consequence if the competency was not demonstrated by a professional engineer.

The results are summarized in the tables below:

| | Importance of the Competencies | | | | | | | |
|----------------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | A | B | C | D | E | F | G | H |
| Very Important | 91.7% | 70.6% | 93.4% | 44.6% | 30.6% | 55.0% | 22.0% | 60.2% |
| Moderately important | 6.9% | 27.4% | 6.0% | 47.0% | 53.4% | 37.4% | 50.4% | 33.9% |
| Slightly important | 0.8% | 2.0% | 0.6% | 7.8% | 14.9% | 7.6% | 23.8% | 5.3% |
| Not important | 0.6% | 0.0% | 0.0% | 0.6% | 1.2% | 0.0% | 3.8% | 0.6% |

| | Risk of Adverse Consequences if Competency Not Met | | | | | | | |
|----------------|--|-------|-------|-------|-------|-------|-------|-------|
| | A | B | C | D | E | F | G | H |
| Very High Risk | 69.4% | 52.6% | 84.6% | 31.2% | 17.5% | 33.5% | 12.4% | 38.1% |
| Moderate Risk | 29.2% | 38.6% | 15.2% | 50.9% | 45.9% | 40.3% | 35.0% | 40.5% |
| Slight Risk | 1.4% | 8.3% | 0.6% | 16.5% | 33.0% | 24.4% | 44.7% | 20.5% |
| No Risk | 0.0% | 0.6% | 0.0% | 1.4% | 3.5% | 1.8% | 7.9% | 0.9% |

Notes: The letters at the top of the tables correspond with the 8 [core engineering competencies](#)

The highlighted boxes indicate the highest rating category for each competency.

These strong survey results validate the core engineering competencies as proposed.