

## **FACTORING OF ENGINEERING EXPERIENCE**

The Board of Examiner experience requirements for:

**Construction Engineering and Management**  
**Project/Cost Controls Engineering**  
**Supply Chain Management**  
**Sales Engineering**

These four areas of experience have been developed by the Board of Examiners as policy providing guidance for applicants to self-assess their experience and for the Board to consistently assess an applicant's experience for registration purposes.

### **Construction Engineering and Management**

This experience includes risk assessment, project scope and deliverables, scheduling, site inspections, procurement, resource management, managing people and environmental considerations. This experience has full knowledge of the project and liaises with the project owner ensuring timeliness, cost, quality and safety of the project.

The Board does not find a problem with this type of experience as long as the application of theory is present. Please see below for what the **Application of Theory** means.

For registration, an applicant must have a minimum of one year of application of theory in their respective discipline and a minimum of three years of construction engineering and management experience covering the majority of the experience listed above. It is possible for the application of theory requirement to be met solely by construction engineering and management experience, with the burden upon the applicant to demonstrate the application of theory in their experience.

Factoring starts at 1.0 and is reduced where the Board finds less application of theory present.

### **Project Controls Engineering**

This experience includes cost estimating, cost tracking, planning, scheduling, change management, and management progress reporting.

The Board finds a problem with this type of experience since there is generally little application of theory present.

For registration, an applicant requires a minimum of 2 years of application of theory in their respective discipline with the remaining project/cost controls engineering experience factored at 0.25.

Factoring starts at 0.25 and is raised where the Board finds better evidence of the application of theory.

## **Supply Chain Management**

This position includes project purchasing, contract administration, quality control and inspection.

The Board finds a problem with this type of experience since there is generally little evidence of the application of theory present.

For registration, an applicant requires a minimum of 2 years of the application of theory in their respective discipline with the remaining supply chain management experience factored at 0.25.

Factoring starts at 0.25 and is raised where the Board finds better evidence of the application of theory.

## **Sales Engineering**

A Sales Engineer is a salesperson with technical knowledge given to buyers and is a link between engineering innovation and its commercial application. A Sales Engineer has technical knowledge of the product and service being sold and uses this knowledge to determine a client's needs and any modifications or innovations necessary to ensure the product or service works for the client. A sales engineer sees a project through from the first contact with the buyer, through scoping the project and selling the product or service, to the project completion or installation, maintenance or turnover. A Sales Engineer identifies technical issues and solves these problems prior to the sale or installation and handles technical issues. A Sales Engineer demonstrates the application of theory and engineering principles in their work.

The Board does not see a problem with this type of experience as long as the application of theory is present.

It is possible for the application of theory requirement to be met solely by the Sales Engineering with the burden upon the applicant to demonstrate how they meet the policy.

Factoring starts at 1.0 and can be reduced where the Board finds less evidence of the application of theory.

## **What Does the Application of Theory Mean?**

The application of theory includes:

- Selecting solutions and solving problems
- Preparing and checking engineering designs or interpretations
- Showing evidence of sound technical judgment and practices
- Demonstrating familiarity with the use and application of pertinent technologies, procedures, systems and programs.
- May also include the collection and analysis of information and data. However, data collection and analysis should not be the major component of your experience for a significant period of time