

Self-Screening Registration Criteria

P02: Structural Analysis of Forest Road Bridges

Mandatory Knowledge Requirements

The Ministry of Forests and Range will only contract with qualified professional engineers (PEngs) to provide professional services for structural analysis of Forest Service road bridges. Professional engineers providing this service must:

1. be members in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC);
2. have considerable recognized specialization in structural analysis of forest road bridges;
3. be thoroughly familiar with the typical details and arrangements described in the Ministry of Forests and Range publication entitled, *Forest Service Bridge Design and Construction Manual* available at the following web site:
<http://www.for.gov.bc.ca/hth/engineering/FRBDC.htm>
4. be thoroughly familiar with the *Canadian Highway Bridge Design Code* (CAN/CSA-S6), including Section 14 (“Evaluation”) and other associated standards for engineering materials, bridge component fabrication, or other standards as appropriate;
5. be thoroughly familiar with accepted engineering practice and sign and seal design drawings;
6. in the case of projects that come under the control and administration of BC Timber Sales (BCTS), obtain BCTS Environmental Management System (EMS) Level 3 training prior to commencing work on any BCTS Worksite.

Mandatory Experience Requirements

All professional engineers providing services for structural analysis of Forest Service road bridges require a minimum of 5 years of demonstrated relevant professional bridge engineering experience, and at least 2 years of this experience must include direct responsibility for significant structural analysis work. This experience must include structural bridge design and/or analysis work in forestry or related resource industries in British Columbia.

Additionally, registered professional engineers must have specific work experience in the following bridge design activities:

1. Preparation of detailed engineering drawings, contract specifications and cost estimates for a wide variety of bridge types, including specialized or complex structural design and/or analysis.
2. Field investigation, assessment and structural analysis of forest road bridges, consisting of log, timber, steel and concrete elements, and recommendations for “load ratings” and/or rehabilitation.
3. Application of Section 14 (“Evaluation”) of CAN/CSA-S6, *Canadian Highway Bridge Design Code*.