

# Self-Screening Registration Criteria

## T01: Forest Road Layout

The Ministry of Forests and Range will only contract with technical services consultants to carry out layout of forest roads under service category T01, who have the mandatory knowledge and experience as detailed below.

### Mandatory Knowledge Requirements

1. have considerable recognized specialization within the discipline of forest road layout services as required by the ministry, including:
  - air photo interpretation
  - ability to determine the compatibility of road locations with harvesting systems and impact of road location on all operable timber volumes
  - comparing costs of alternative routes
  - identifying control points that may influence road location or design
  - identifying potential user safety hazards and potential risk of damage or loss to environmental values and other threatened values
2. have considerable knowledge of:
  - terrain types
  - road survey and design output including road prism, vertical and horizontal alignment requirements
  - soil types, and road drainage
  - stream crossing requirements
  - harvesting methods
3. have a working knowledge of:
  - soil and rock mechanics
  - the principles of forest hydrology (both ground and surface water)
  - principles of slope stability
  - terrain maps, terrain stability maps, and surficial geology maps
  - construction equipment and construction techniques, including and understanding of the types and limitations of excavation and drilling
4. be familiar with Provincial legislation such as the *Forest Practices Code of British Columbia Act*, *Forest and Range Practices Act* and *Water Act*, and associated regulations under those acts, including the Water Regulation, Forest Road Regulation, and the Forest Planning and Practices Regulation among other legislation relevant to specific projects in forest road route planning and construction
5. have knowledge and understanding of the principles and best management practices relevant to road layout provided in publications such as:

- Forest Practices Code of BC Fish-stream Crossing Guidebook (March 2002)
- Forest Practices Code of BC Forest Road Engineering Guidebook (June 2002)
- Forest Practices Code of BC Riparian Management Area Guidebook
- Forest Practices Code of BC Fish-stream Identification Guidebook
- Forest Practices Code of BC Mapping and Assessing Terrain Stability Guidebook (August 1999)
- Forest Practices Code of BC Gully Assessment Procedure (February 2001)
- Best Management Practices Handbook: Hillslope Restoration in British Columbia (November 2001)

[http://www.for.gov.bc.ca/hth/engineering/documents/publications\\_guidebooks/publications\\_reports/bmp\\_hndbk\\_nov\\_01.pdf](http://www.for.gov.bc.ca/hth/engineering/documents/publications_guidebooks/publications_reports/bmp_hndbk_nov_01.pdf)

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**

Consultants providing services for forest road layout require a minimum of 5 years of demonstrated relevant experience in selecting route corridors and road locations in forestry or related resource industries in British Columbia. Consultants must have specific work experience in the following activities:

- pre-field and fieldwork as necessary to choose route corridors and road locations based on recognizing impacts to forest resources and other values, including recognizing slope stability hazards that require additional help or specialist advice (e.g. professional engineer or professional geoscientist)
- completion of a flagged preliminary centre-line of the road including a level one survey as described in the *Forest Road Engineering Guidebook*
- preparation of a reconnaissance report, to successfully guide the forest road survey and design contractor, and to identify and recommend any additional required information or assessments as described in the *Forest Road Engineering Guidebook*.