NOTE: Please feel free to use the most recent edition of textbooks referenced in this list.
NOTA : Utilisez l’édition la plus récente des manuels cités dans cette liste.

16-Civ-A1 Elementary Structural Analysis

Primary Reference:

Secondary References:


16-Civ-A2 Elementary Structural Design


16-Civ-A3 Elementary Environmental Engineering

16-Civ-A4 Geotechnical Materials and Analysis


16-Civ-A5 Hydraulic Engineering


16-Civ-A6 Highway Design, Construction, and Maintenance


16-Civ-B1 Advanced Structural Analysis

Primary Reference:
Secondary References:

16-Civ-B2 Advanced Structural Design


CAN/CSA-S6-06  Code canadien sur le calcul des ponts routiers


16-Civ-B3 Geotechnical Design


16-Civ-B4 Engineering Hydrology


16-Civ-B5 Water Supply and Wastewater Treatment


16-Civ-B6 Urban and Regional Planning


16-Civ-B7 Transportation Planning and Engineering


Note: No available text, including the one recommended, adequately covers all topics in the Syllabus. Candidates will have to seek more depth on: “Deterministic” queuing theory; rail, air, water, and pipeline systems; accidents.


16-Civ-B8 Management of Construction


Provincial Health and Safety Act, for the candidate’s jurisdiction.

16-Civ-B9 The Finite Element Method

Primary Reference:
Secondary References:


**16-Civ-B10 Traffic Engineering**


**16-Civ-B11 Structural Materials**


**16-Civ-B12 Risk and Safety in Civil Engineering**


**16-Civ-B13 Numerical Methods**


**16-Civ-B14 Open Channel Hydraulics**


**16-Civ-B15 Coastal Engineering**


**16-Civ- B16 Advanced Environmental Engineering**


**16-Civ-B17 Intelligent Transportations Systems**


**16-Civ-B18 Geomatics**


**16-Civ-B19 Foundation Engineering**


**16-Civ-B20 Building Engineering and Services**

16-Civ-B21 Advanced Structural Mechanics


16-Civ-B22 Dynamics of Engineering Structures

Primary Reference:

Secondary References:
