



BRIDGE INSPECTION MANUAL
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Book Descriptions:

bridge inspection manual canada

Provides commentary, interpretation and guidance on the provisions contained in the Standard Specifications for Bridge Construction Edition 16 2017 and the Engineering Consulting Guidelines for Highway, Bridge, and Water Projects, Volume 1 2011 and Volume 2 2013. Volume 2 of the manual consists of inspection check sheets developed for each technical section contained within Volume 1. These inspection check sheets are provided as a resource to the bridge construction inspector for conducting regular inspection activities. Edition 3, Volume 1 Edition 3, Volume 2 inspection check sheets Technical Services Branch. Volume 2 of the manual consists of inspection check sheets developed for each technical section contained within Volume 1. These inspection check sheets are provided as a resource to the bridge construction inspector for conducting regular inspection activities. Not a MyNAP member yet. Register for a free account to start saving and receiving special member only perks. Because it is UNCORRECTED material, please consider the following text as a useful but insufficient proxy for the authoritative book pages. U.S. state departments of transportation DOTs was also disSix agencies Ontario, and Quebec, and municipal agencies of Edmonton and. Ottawa. Two provinces, Alberta and Ontario, provided copies Inspection information from the six Canadian agencies is The information is useful itself, Most Canadian Canada has road agencies at three administrative levels Canada, a part of the federal ministry, administers roads, Infrastructure Canada Canadian Transport Agency Canada as National High There are about 27,000 km of national highways. Alberta Infrastructure and Transportation is responsible for The province has direct over Alberta as Quebec also Documents. Alberta has a two volume manual for bridge inspection and The two volumes correspond to BIM manuals are maintained by. Alberta as Bridge Preservation Specialist. BIM is the inspec Management System TIMS. <http://www.sanitconsulting.it/public/userfiles/crestron-mlx-2-manual.xml>

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TIMS, deployed in 2005, Edmonton, a city in Alberta, also uses the BIM manuals. The Edmonton Bridge Engineer has general responsibility Ontario province publishes the Ontario Structure Inspection. Manual OSIM C3. The manual is maintained by Ontario as. Bridge Inspection Program Manager. The province of New. Brunswick and the city of Ottawa also use Ontario as inspection Quebec has a two volume bridge inspection manual main Inspection program manager titles for each responding Three provinces, Alberta, Ontario, and Quebec, have New Brunswick reports that three technical assistants man Edmonton and Ottawa report Bridge Load Rater. All four provinces reported a person in charge of bridge load Ottawa uses consul Alberta certifies two classes of bridge inspector. Class A Class B inspectors are qualified Quebec identifies Class A Quebec also has. Class B inspectors and Class B2 assistants. Both work with. Class A bridge engineers. Ontario identifies both inspection team leaders employed by Ottawa reports that Underwater Inspection Leaders and Inspectors. Quebec employs two staff members as leaders for underwater Alberta as BIM manual requires that underwater inspectors be. Province or City Agency Portfolio. Alberta Alberta Infrastructure and Transportation Roads, water, and wastewater. British Columbia Ministry of Transportation Roads, ports, commercial Manitoba Manitoba Infrastructure and. Transportation. Roads and water stewardship. New Brunswick Department of Transportation Roads. Newfoundland and. Labrador. Transportation and Works Roads, ports, and marine transport. Northwest Territories Department of Transportation Roads, ports, community airports, and Nova Scotia Transportation

and Public Works Roads, government buildings, Nunavut Pivalliyuliyikkut Ingilrayuliyitkullu, Development and Transportation. Roads, mining, fishing, tourism, Ontario Ministry of Transportation Roads and Rails. Prince Edward Island Transportation and Public Works Roads. <http://www.cajou.be/userfiles/crestron-mc3-user-manual.xml>

Quebec Transports Quebec Roads; public transportation; air, rail, Saskatchewan Highways and Transportation Roads, ferries, and airports. Yukon Territory Highways and Public Works Roads, government buildings, Structures. DOT Bridges Culverts. Alberta 5,600 8,200. Edmonton 270. New Brunswick 2,823. Ontario 2,700. Ottawa 667. Quebec 8,600. Agency Executives. Inspection Program. Managers. Regional Inspection. Alberta Director, Bridge Engineering Bridge Preservation Regional Bridge Manager New Brunswick Assistant Director a Bridge and. Ferry Maintenance. Senior Technical Advisor Head Regional Structural. Engineer 5. Ottawa Program Manager. Infrastructure Assessment and. Program Development Unit. Needs and Programming Note Shown in parentheses is the number of DOT staff holding each title. Edmonton. New Brunswick. Senior Bridge Design. Engineer 2. Ontario Inspection and Evaluation. Engineer 3. Regional Structural Engineer responsible for all aspects of BIM project manager Various titles agency 20, Class A inspector major Alberta. Class B inspector standard Edmonton Bridge technologist. Bridge maintenance technician Team leader agency 15 Senior structural engineer 50 Structural technician or Ontario. Senior structural engineer Ottawa Structure inspection Structure inspector 3. Class A bridge engineer Class B inspectors Class B2 inspectors Quebec. Class B bridge engineer Inspection Specialists. Quebec province has specialists for equipment inspections, Other Canadian agencies Alberta uses consultants for most specialized inspections Alberta as Senior Bridge Main Responsibilities for inspection program managers at Cana Administration. At most Canadian agencies, the inspection program manager Edmonton as in Fracture critical Consultants. Scour Consultants. In depth Consultants. Alberta. Damage Senior bridge maintenance technologist 1. Fracture critical Consultants. Edmonton. Damage Consultants. Electrical equipment Consultants. Mechanical equipment Consultants. New Brunswick. Ontario None.

Electrical equipment Consulting firms 13. Mechanical equipment Consulting firms 13. Fracture critical Consulting firms 13. Scour Consulting firms 2. Ottawa. Damage Structure inspection team. Electrical equipment Electrical equipment inspector 10. Other equipment Signage structure 5. Fracture critical Fracture critical inspector 2. Scour Scour critical inspector 4. In depth In depth inspector 4. Quebec. Damage Damage inspector 3 Annual. Report. Inspection. Annual. Budget. Workforce. Equipment. Hires. Agency. Leaders and. Inspectors. Consultants. Load. Raters. Alberta Yes. Edmonton Yes Yes Yes Yes Yes Yes. New Brunswick Yes Yes Yes. Ontario. Ottawa Yes Yes Yes Yes. Quebec Yes Yes At all six reporting agencies, program managers develop in At most agencies, man Inspector Training and Qualifications. At three agencies, program managers direct the training of Quality Programs. Four Canadian agencies reported that program managers set Bridge Load Rating. Two of the six agencies Edmonton and Ottawa reported that Quebec, the program manager sets load rating methods. Bridge Maintenance. In New Brunswick, the inspection program manager allocates Bridge Load Rater. Bridge load raters at the Canadian agencies request inspec Alberta as load rater initiates Damage. Orders. Special. Orders In. Depth. Hands On. Bridge. Monitoring. Orders Field. Tests for. Orders Identifies. Critical. Findings. Edmonton Yes Yes Yes Yes Yes Yes Yes. New Yes Yes Yes Yes Yes. Ottawa Yes Yes Yes Yes Yes. Quebec Yes Leaders and. Certifies. Decertifies. Alberta Yes Yes Yes. Ontario Yes. Ottawa Yes. Quebec Yes Yes Oversight. Execution. Consultant. Edmonton Yes. Quebec Yes Manual. Methods. Reporting. Forms. Database. Format. Local. Bridges. Edmonton Yes Yes Yes. New Brunswick Yes Yes. Ontario Yes Yes Yes. Quebec Yes Yes Yes Inspection. Intervals. Identifies. Complex. Fracture. Scour. Teams. Assigns. Bridges Agency. Selects. Access. Methods Equipment. Bridges to. Yes Yes Yes Yes Yes. Ontario Yes Yes.

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Quebec Yes Yes Yes Inspection team leaders have responsibilities for inspection C14 and C15. At three agencies Alberta, Ontario, and Quebec Inspection team members, where used, perform similar In Alberta, inspection personnel complete a combination of There are separate training Quebec has inhouse training courses for inspectors. Other. Canadian agencies use onthejob training or employ consul Refresher Training. Alberta provides additional training when there are changes Ontario provides a 3day course that Special Training. Quebec provides special training courses for hands on and Other agencies do not provide Inspection Program Manager. Four Canadian agencies require a Professional Engineering PE Four agencies require Requirements DOT Inspection Role. Inventory. Data. Load Permit. Review Reports to. Alberta Requests inspection Load ratings Director, bridge engineering. Edmonton Requests inspection. Requests monitoring. Bridge engineer. New Brunswick Requests inspection. Requests measurement. Yes Assistant director a Structures. Ontario Requests inspection. Head evaluation and inspection Ottawa. Quebec Requests inspection. State bridge engineer Planning. Traffic. Control. Posting. Alberta Plans Recommends. Edmonton Plans Requests Requests. Ontario Plans Requests Requests Recommends. Ottawa Plans Requests. Quebec Plans Requests Requests Recommends Methods. Special Inspections. Directs. Inspection Note. Alberta Directs Yes. Edmonton Directs Yes. Ontario Directs Recommends Yes. Ottawa Directs Yes. Quebec Directs Report. Performs. Data Entry. Verifies Data. Entry. Alberta Yes Yes. Edmonton Yes Yes. Ottawa Yes Yes. Quebec Yes Yes Four agencies reported on the qualifications for bridge load Three agencies Inspection Team Leader. In Alberta, Class A inspectors must have a civil engineer Technicians and Technologists. Class B inspectors must Training and examinations Inspectors a certifications Individuals must demonstrate Edmonton, Ottawa, and. Quebec require a college education for team leaders.

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Most Quebec measures individual experience as aggregate deck In the current workforce, many Canadian inspection team Qualifications for inspection team members, other than Underwater Bridge Inspection Team Leader. Underwater Bridge Inspector. Qualifications for leaders of underwater inspections were Edmonton requires an engineer PE licenses Table C27. Other Certifications. Alberta, New Brunswick, Ontario, and Ottawa all recognize Quebec issues certificates to Hands On. Inspection DOT. In Depth. Traffic Lane. Closures. Findings Data Entry Report QC. Alberta Recommends Recommends Requests Recommends Recommends Verifies Performs. Edmonton Recommends Requests Requests Recommends Performed and verifyes. New Brunswick Recommends Requests Requests Recommends Recommends. Ontario Recommends Requests Requests Recommends Performs and verifies Performs. Ottawa Recommends Performs and verifies Performs. Quebec Recommends Performs. DOT Training. Alberta Inhouse and field training programs for inspectors, leading to two levels of Edmonton. New Brunswick Onthejob training. Ontario Inhouse training. Ottawa College education, onthejob training, training consultants. Quebec Inhouse; two courses of 4 days each Alberta Inhouse As needed for changes to inspection practice. Edmonton No requirement. New Brunswick No requirement. Ontario 3day inspection course 2 years. Ottawa No requirement. Quebec No present requirement; may in future Edmonton, New Brunswick, and Quebec require that No agency reported that there was a periodic review of No formal requirements or pe Edmonton and.

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Quebec use twoperson teams, and New Brunswick uses Team size varies in Alberta All six agencies reported the use of specific teams for frac In Ontario and Ottawa inspection teams work together Quebec reported that maintenance crews may perform Alberta uses consultants for 95% of its bridge inspections, Bridges are assigned to consultants as needed for individual Level 1 inspections are Reporting forms are tailored to the There are 25 dedicated forms for in Level 1 inspections report only DOT Certification Education. Experience. Training. Alberta PE Engineering

degree 10 years Yes. Ontario PE Engineering degree 5 years Yes. Quebec PE Engineering degree 5 years Yes. DOT Certification Education. Alberta PE Engineering degree 10 years Other training. Edmonton Engineering degree. Ontario PE Engineering degree 5 years. Quebec PE Engineering degree 2 years Yes Bridge. Edmonton Engineering degree 5 years. New Brunswick Engineering degree. Ottawa PE Engineering degree 10 years. Quebec PE Engineering degree 5 years Yes Level 2 inspections usually are elementlevel inspectionsBridge. Team Class A Yes 2 years Class A Class A 3 years Class A Alberta. Class B Yes 2 years Class B Edmonton Team NewOttawa TeamYes Yes. Quebec TeamYes 5 years Yes Inspection. Experience Note. Edmonton 100% Team leaders other categories blankQuebecSome Level 2 inspections are periodic. Alberta conductsThe program began in 1977. Electrical potential measureInspection. New Brunswick Quebec 100% Team leaders DOT Inspector Certification Education Experience. Alberta Inspector Yes High school 2 years Yes. Edmonton Inspector Yes College degree. New Brunswick College degree. Inspector PE Engineering degree 2 years Yes Quebec. ElectricalYes College degree 5 years Yes Team Edmonton NewEngineering OntarioOttawa. Team Engineering QuebecEngineering Ontarioas inspection types include routine inspection,Ultrasonic inspections of fatigueOntario uses 24 and 48month inspection intervals. TheHandsOn Inspection.

All six agencies reported the use of handson inspections in reHealth Agility Strength Equipment Note. Alberta No specific requirements or Edmonton General physical suitability. No periodic review. New Brunswick Ability to climb Work in confined space. Ontario Must be able to get around atNo periodic review. Ottawa No specific requirements or Quebec Good Ability to climb. Able to work at Other, no periodic review Size Make Up. Team. Alberta Varies Based on assignment and Ottawa. Quebec 2 As needed. NewCritical. Members. Inspections. Increased. Intensity Access. Type. Movable. Bridges Notes. Alberta Yes Yes Yes Consultants with Edmonton Yes Yes No Consultants. NewYes Yes Yes Yes Consultants. Ontario Yes Yes No Consultants Ottawa Yes Yes No Consultants. Quebec Yes Class A No Fracture or scour Special inspections Class A Repeat. Rotate Neutral Notes. Alberta Yes Team inspects same bridges to the extent possible. New Brunswick Yes. Ontario Yes Same bridges; encourages familiarity. Ottawa Yes Random assignments. Quebec Alberta 5 95. Edmonton 100 0. New Brunswick 100 0. Ontario 50 50.

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