

TAC's Educational Achievement Award

Application Form

NOMINATION BY

TAC Member Organization: Ontario Good Roads Association

Key employee representative: Joseph Tiernay, Executive Director

NOMINATION FOR

Title: MUNICIPAL PAVEMENT CONDITION EVALUATION

☒ Program ☐ Project ☐ Process or ☐ Other

Please provide a brief summary about the initiative being nominated:

This course enables municipalities to assess the condition of the asphalt pavements in their road networks, accurately and consistently with respect to identifying distress types and severity of the distresses.

TAC Member Organization: Ontario Good Roads Association

Contact Person: Heather Crewe

Title: Manager, Professional Development & Training

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ATTACHED

- six paper copies of complete nomination submission package (no longer than 7 pages - 8.5" x 11")
- one PDF electronic file of submission on CD
- supporting documents (diagrams, photos, etc.) if needed

Deadline: Friday, March 11, 2011

Send to: 2323 St. Laurent Boulevard, Ottawa, Ontario K1G 4J8

Please note that information on the evaluation criteria and process is provided at

<http://www.tac-atc.ca/english/awards/tacawards/education.cfm>

If you have any questions or need clarification, please call (613) 736-1350, ext. 231 or email jsbisson@tac-atc.ca.





Ontario Good Roads Association

MUNICIPAL PAVEMENT CONDITION EVALUATION

As part of our overall mandate to assist our municipal members with the management of public assets, OGRA developed a course in pavement condition evaluation to help municipalities make accurate and consistent assessments of the asphalt pavements in their road networks, with respect to identifying distress types and gauging the severity of the distresses.

This training is unique within the municipal sector, and provides staff with the ability to forecast the capital and operational investments needed to maintain the roads within their communities. To facilitate the transfer of skills to on-the-job application, the course features a number of field trips where participants can apply the concepts they have learned by assessing the pavement condition of municipal roads at several pre-selected sites. Condition ratings made by the class are then compared and contrasted with condition ratings made by the instructor team of pavement specialists.

Learning Objectives

At the end of the workshop, participants will be able to:

1. Rate pavement roughness.
2. Identify flexible pavement distresses as listed in SP-024.
3. Determine the severity and extent of pavement distresses.
4. Determine the condition of adjacent features such as curbs and gutters.
5. Determine the Pavement Condition Index rating for flexible pavements.

Course Content

Module One:

Part 1 – The Elements of Pavement Evaluation

- Purpose of pavement evaluations
- Guiding principles of pavement evaluations

Part 2 – Components of Pavement Evaluation in a Municipal Setting

- Brief history of pavement evaluation
- Roughness, surface distress, friction, and pavement structure evaluation
- Related asset management needs, e.g. paved shoulders, curb and gutter, sidewalks

Module Two: Pavement Types

- Flexible vs rigid pavement
- Relationship between asphalt type and appearance, materials, and distresses
- How pavement evaluations vary among the various types of pavements

Module Three: Pavement Roughness

- Riding comfort rating
- Riding condition index
- RCR rating guide, and evaluation methods
- Field exercise and review of results

Module Four: Distress Manifestations

- Types of pavement distresses
- Potential causes of distress
- SP-024 categories of distresses
- Severity scale
- How to rate multiple distress severities in a given section
- Density scale for transverse cracks and other distresses

Module Five: Calculation of Indices

- Pavement Condition Index formulae, tables
- Relationship between RCI, DMI, and PCI

Module Six: Field Exercise and Review of Results

Module Seven: Field Circuit

- Graded pavement condition evaluation exercise

Target Audience: Municipal operations and engineering technical staff and consulting engineers responsible for inspecting and assessing pavement condition. Class size is limited to 20 students for optimal benefit from the field circuit component and low student to instructor ration.

Duration: 3 days

Evaluation Process: Successful completion of both written examinations and field circuit assessment. Passing grade: 80%

Instructor Team

Guy Cautillo, Consultant, Applied Research Associates, Inc.

Jerry Hajek, Consultant, Applied Research Associates, Inc.

DJ Swan, Consultant, Applied Research Associates, Inc.

Brian Anderson, Asset Management Coordinator, Ontario Good Roads Association