



CTEP
CENTRE FOR TRANSPORTATION ENGINEERING & PLANNING

Roundabout Planning, Operational Analysis & Design Course

CTEP (Centre for Transportation Engineering & Planning) is a leader in providing professional development training and supporting applied research in the areas of transportation engineering and planning. In this role, CTEP provides a forum for dialogue, collaboration and technology transfer among stakeholders in the transportation engineering community in Canada. Our website is: www.c-tep.com.

CTEP is pleased to offer a *short course*, “**Roundabout Planning, Operational Analysis & Design,**” in **Calgary, Alberta - November 21 & 22, 2019.**

Roundabout Planning, Operational Analysis and Design

Congestion and safety problems occur at intersections, nearly 70% of all vehicular crashes and approximately 50% of pedestrian crashes in urban areas occur at or near intersections or driveways. Our current paradigm of intersection and roadway improvements with signalization and widened roadways can produce significant impacts with associated land and construction costs. Balancing overall operations and safety with business circulation and access needs, adjacent land-use, live-ability and pedestrians safety objectives pose significant challenges. The course will teach you how Roundabouts assist in meeting these challenging and often competing needs within our built environment.

Course Instructor: Mark T. Johnson, P.Eng. (AB)

Mr. Johnson has over 20 years of traffic and transportation engineering experience, and is the Principal Engineer for MTJ Roundabout Engineering. He has spent 20 years applying modern roundabouts to achieve traffic and transportation solutions within the overall context of the roadway system. Mark’s work has included both public (city and state) and consultancy experience focused on traffic & transportation engineering and planning. Mark was a co-author of the FHWA 2010 Roundabout Guide (NCHRP 672), a key contributor to the WIDOT Roundabout Program, and is an FHWA Peer-to-Peer Qualified Roundabout Reviewer.

Mr. Johnson has provided numerous training courses, is an experienced public speaker, an active member of the TRB and ITE Roundabout Committees, and contributes to ongoing roundabout research.

MTJ Roundabout Engineering works as technical area expert on project teams, providing analysis and design, peer review, safety audit of problematic roundabouts, training, public outreach/education, and visualization services (www.mtjengineering.com).





COURSE OUTLINE

After participating in this course, you will be able to:

- Understand the benefits of roundabouts in the overall roadway/traffic planning process
- Perform an operational/traffic analysis to determine necessary laneage and allow for selection of safe geometrics
- Understand the correlation between operational analysis and geometric design
- Determine how to avoid the mistakes of poorly planned, designed and/or constructed roundabouts

This course provides 14 Professional Development Hours (PDHs)

Description:

In this course you will learn how roundabouts can address challenges and competing project objectives within our roadway system, such as: operations, safety, access needs, truck/freight movements, and pedestrian/bike safety facilitation.

Day one will focus on the operational analysis tools and procedures (HCM model & UK-based Rodel/Arcady), with hands-on exercises to determine the necessary laneage for optimal safety and operations.

Day two will focus on geometric design of roundabout applications in various contexts, including hands-on exercises to facilitate the selection of optimized geometrics.

Course Topics:

- Modern roundabouts – traffic engineering
- Planning benefits of roundabouts
- Access management
- Street/pedestrian & cycling design treatments
- Operational analysis
- Geometric design – capacity & safety
- Signing, pavement markings, landscaping
- Public involvement – informed consent
- Case studies – best practices

Who Should Attend?:

Traffic Engineers • Project Engineers • Transportation Engineers • Designers • Infrastructure Managers • Municipal Managers & Administrators • Traffic Planners • Transportation Planners • Consulting Engineers





REGISTRATION

**“Roundabout Planning, Operational Analysis & Design Course”
November 21 & 22, 2019 (8:15 AM – 4:30 PM)**

**The Glenmore Inn
2720 Glenmore Trail SE, Calgary, Alberta T2C 2E6
Ph. 403-279-8611**

Name(s): _____

Organization: _____

Address: _____

City/Province: _____ Postal Code: _____

Phone: _____ Email: _____

COURSE FEES per person (GST Exempt)

CTEP Members: \$1,300 **Non Members: \$1,650**

- Course fees, (GST Exempt), include classroom materials, lunches & refreshments
- Payment is due and payable with your registration; early registration is encouraged.
- The registration/cancellation deadline is November 15, 2019
(There will be no refunds thereafter; substitutions are of course permitted.)

Payment via: **VISA/MasterCard** **Cheque** Amount: \$ _____

Visa or MasterCard: email this registration form to info@c-tep.com Phone: 403-607-4482

Credit Card Number: _____

Print name as it appears on the card: _____

Expiry month/year: _____

Signature: _____

By Cheque: payable to “CTEP” and remit, **along with this registration form to:**

CTEP (Centre for Transportation Engineering & Planning)

c/o Stantec, Transportation

200, 325 – 25 Street SE

Calgary, AB T2A 7H8 Attn: Neil Little