

LTAP

Local Technical
Assistance
Program

Presented by WSDOT's Highways & Local Programs LTAP Center

Troubleshooting Roundabout Design

A one or two-day course

Fee: \$150 one-day course

Fee: \$250 two-day course

Time: 8:00 am to 5:00 pm

Class Size: 35

Instructors

Patrick McGrady and Rachel Price, Reid Middleton, Inc. Patrick and Rachel are civil/transportation engineers with 13 and 5 years experience respectively in roundabout analysis and design. Their roundabout experience includes public involvement, establishing design criteria, evaluating roundabout feasibility, conceptual layouts, traffic analysis, and full PS&E. In addition to participating in the WSDOT Roundabout Task Force they are annual guest lecturers on roundabouts at the University of Washington. Patrick has made roundabout presentations at the 83rd Annual Transportation Research Board Meeting (Washington DC), Oregon State APWA Conference (Bend, OR), Oregon ITE Technical Session (Portland, OR), WSDOT Northwest Region Design Construction Conference (Seattle, WA), Washington ITE Annual Meeting (Bellevue, WA) and others. Patrick and Rachel continually provide one and three-day roundabout design and roundabout plan review training to the California Department of Transportation (Caltrans).

Target Audience

Traffic analysts, roadway designers, staff that are part of plan review for roundabout or roadway design, and their immediate supervisors.

Course Description

Students will participate in hands-on roundabout design. Exercises include site specific conditions that influence the choice of roundabout control. Students will troubleshoot roundabout designs to identify and remove fatal flaws and refine the design for safe efficient traffic operations. The instructors will show how to establish a balance between design elements and avoid common pitfalls in single and multi-lane roundabout design that rob capacity and contribute to collisions.

In addition to the one-day class material, the two-day class will offer roundabout plan review exercises, more detailed design exercises, and cover challenges and solutions of multi-lane roundabout design. The class will also include how to assemble roundabout plans to ensure clear communication of critical dimensions and features.



Washington State
Department of Transportation

Course Objectives

The course will highlight that it is the responsibility of the designer to distinguish negotiable and non-negotiable elements in roundabout design and how these elements interact to produce the desired driver behavior through the intersection. Students will achieve a basic understanding that a strict adherence to roundabout design standards does not guarantee a safe and efficient design.

For further information contact Judy McDonald, Training Program Coordinator, at (360) 705-7355 or McdonJT@wsdot.wa.gov

