

GTE Responsibilities - Region Traffic

Introductory Knowledge: A basic understanding of the objective

Working Knowledge: An understanding of the information and an ability to use and apply the information

Demonstrated Competency: The proven ability to perform the objective determined by the supervisor

Objective Description		Introductory Knowledge	Working Knowledge	Demonstrated Competency
1	Training: Obtain a working knowledge of all applicable design standards, including the Traffic Design Manual, Standard Drawings, HSAM, MUTCD, AASHTO Greenbook and applicable guides, that govern the transportation elements associated with Traffic Design, including the differences between laws, policies, rules, and guidance.			
2	Training: Obtain a working knowledge of TSMO principles to improve our roadway network.			
3	Assist with Public Involvement efforts, including responses to emails and phone calls, public meetings, website updates, etc (if feasible).			
4	Calculate sight distance for the following scenarios: Stopping Sight Distance, Passing Sight Distance, Intersection Sight Distance, and Decision Sight Distances - and - obtain an understanding of how sight distances impact roadway design, posted speeds, and placement of traffic control devices.			
5	Implement Roadside Design guidelines and concepts for clear zone as part of a retro fit design.			

6	(Anticipate coordination with other Regions) Review Traffic Control Plans and TMP for Significant Projects, projects having greater than 30,000 AADT, to ensure traffic control is consistent with work zone standards, constructable, and, where applicable, accommodates motorized and non-motorized users, if feasible.			
7	Assist in conducting Quarterly Traffic Control Reviews of active construction jobs, noting common issues with the zones and design issues which cause non-standard deployments of devices.			
8	Hands-On Training: Obtain a working knowledge of traffic flow fundamentals concepts established by the Highway Capacity Manual (HCM).			
9	(Anticipate coordination with other Regions) Attend and participate in a Planning Study meeting.			
10	Participate in traffic impact studies, road safety audits, and local road safety improvement plans.			
11	Analyze traffic safety at a variety of intersections and road segments, review crash data to identify trends, select an appropriate countermeasure, and produce a conceptual design that implements the appropriate countermeasure to improve traffic safety.			
12	Perform speed studies for roadway segments to verify the posted speed limit is appropriate - and - perform spot speed studies and ball bank studies, as necessary.			
13	Conduct an intersection evaluation for improvement alternatives, including Multi-way Stop Analysis, Traffic Signal Warrant Analysis, or other alternatives (i.e. roundabout).			

14	Develop preliminary geometric concept plans, as needed, for roadway improvements using MicroStation.			
15	Assist with the development of annual maintenance contracts, including retracing and relensing.			
16	Assist in preparing call outs for On-Call Contract work for Signage or Pavement Marking.			
17	Review and ensure compliance of proposed commercial entrances with TDOT standards.			
18	Assist with the sign inventory program by performing daytime and nighttime inspections.			
19	Participate in a site review including: site reviews for complaints related to traffic operations issues, safety concerns, and/or or maintenance concerns.			
20	Actively participate in various field meetings including road safety audits, bridge diagnostic team reviews, and railroad grade crossing diagnostic team reviews - this objective is dependent upon time of year, weather conditions, and urban vs rural setting.			
21	Collect Traffic Volume data by performing a turning movement count, and/or a delay study.			
22	Observe the fabrication and installation process for highway signs, posts and foundations - and - physically inspect hardware and types of connections for sign hardware.			
23	Observe and obtain an understanding of pavement marking materials and installation practices, including paint, spray thermo, enhanced thermo, preformed thermo, tape and snowplowable markers.			

24	Obtain plans from archives and online to find ROW, Drainage, Cross Sections, original intersection alignments and other data for projects under review or development.			
25	Ensure quality meets or exceeds standards.			
26	Manage change by maintaining complete and accurate documentation, to assist in providing project continuity.			
27	Identify and effectively coordinate with the Pre-Construction disciplines, Traffic Operations, Construction, IT as necessary to ensure the needs of the project are met.			
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