

GTE Responsibilities - Construction				
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	Discussion Topic: Performance Metrics for Construction			
2	Assist with surveying for calculating quantity measurements and verification of horizontal/vertical controls.			
3	Hands-On Training: Density Testing, Concrete Testing, and Pavement Testing			
4	Assist with the inspection of miscellaneous concrete construction, including sidewalks, curb and gutter, and ditch pavement.			
5	Manage change by maintaining complete and accurate documentation, to assist in providing project continuity, including Daily Work Reports (DWRs) that include items such as weather events and/or conversations.			
6	Assist with an environmental inspection using knowledge gained as part of the EPSC training.			
7	Attend a constructability review, if available. (Anticipate coordination with other Regions)			
8	Attend a Pre-Construction Field Review, if feasible (Anticipate coordination with other Regions).			
9	Field Observation: Interstate Paving Project.			
10	Field Observation: Geotechnical Items, including embankment material, pile driving and/or drilled shafts, auger cast piles, artesian situations, undercutting, muck, and sound wall footings.			

11	Assist in Project Close-Out, including the purpose of a project close-out, an understanding of the time limitations for completing a project close-out, acceptance of work and materials, processing final payment, and completing project audits.			
12	Field Observation: Layout, MSE Walls, Piers, Caps, End Bents, Setting Beams, Bridge Deck Pours, and Approach Slab construction, if feasible. (Anticipate coordination with other Regions).			
13	Review work zones to mitigate safety risks for the contractor's crews and the traveling public and to ensure consistency with the design standards.			
14	Identify bridge components, including Foundation (i.e. Piles, Pile Caps, Endbents), Substructure (i.e. Abutments, Piers, Wing walls, Pier Caps), Superstructure (i.e. Beams, Girders, Bridge Deck, Bearing Pads), and Adjoining Structures (i.e. Approach Slabs), if feasible. (Anticipate coordination with other Regions).			
15	Field Review to observe innovative bridge construction projects, such as Slide-In Bridge Construction (SIBC), if feasible. (Anticipate coordination with other Regions).			
16	OPTIONAL: Assist in performing Density checks for Select Soil associated with MSE wall construction. * The GTE will need to obtain additional certifications to use or be in proximity of the nuclear gauge. Not all Regions will have MSE wall construction, so anticipate coordination with other Regions and/or anticipate performing density testing as part of other construction requirements.			
17	(Region specific) Observe pile driving and/or drilled shafts. Drilled Shaft testing could be coordinated with M&T. Discuss types of foundations that are done in other Regions, i.e. rock environment vs high water table environment, if feasible.			

18	Check bridge clearances as part of pavement projects. After paving, the profile grade line could change, creating a need to verify clearance is still consistent with existing signage.			
19	For bridge construction, observe steel reinforcement installation, with additional attention to splicing and overlapping requirements, dowling, and required clearances, if feasible. (Anticipate coordination with other Regions).			
20	For Bridge Widening, check for any changes that were made after the original structure was built such as utilities, drainage, electrical, slope paving, right-of-way (including lease space), etc. for consistency with the construction plans, if feasible. (Anticipate coordination with other Regions).			
21	Assist with Public Involvement efforts, including responses to emails and phone calls, public meetings, website updates, etc (if feasible).			
22	Develop and analyze construction schedules using software tools.			
23	Assist with addressing and completing contract changes, including change orders, plan errors, changed conditions, E&Os, time extensions, supplemental agreements, claims, additional work, delinquency and liquidated damages, and negotiations.			
24	Assist with reviewing and processing shop drawings.			
25	Proactively assist with RFIs to ensure timely responses from design and bring issues to closure, if available.			
26	Effectively coordinate with the Contractor, TDOT, and the designers to ensure the needs of the project are met.			
27	Estimates. For the estimate period, assist in verifying T2s/certifications for project-specific items, check and compare field measurements to plan quantities, and ensure weekly traffic control sheets and monthly employee interviews have been submitted.			
28	Ensure quality meets or exceeds standards.			

29	Field review to a Coffe Dam installation, if feasible. (Anticipate coordination with other Regions).			
30	Field Review to a Prestressed Fabrication Plant, if feasible. (Anticipate coordination with other Regions).			
31	Field Review to view deck chaining for lamination, if feasible. (Anticipate coordination with other Regions).			
32	Field Review to view sandblasting and painting of steel beams, with additional considerations for specifications related to millimeters per coat, etc. if feasible. (Anticipate coordination with other Regions).			