

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee – from furniture to food items to clothing – requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson. TDOT Aeronautics is located near the John C. Tune Airport in Nashville, TN.



Construction Senior Technical Specialist

Asset Management Division – Performance and Quality Management Section
Nashville, TN
\$75,204 annually

Job Overview

The Construction Senior Technical Specialist in TDOT's Performance and Quality Management Section of the Asset Management Division ensures design quality, compliance, and alignment with asset management strategies. This role reviews current processes and assists in developing policies, procedures, and performance targets to improve and sustain TDOT's assets. Acting as a liaison with the Pavement, Bridge Asset, and Ancillary Infrastructure Asset Sections, this position integrates lifecycle cost analysis, risk mitigation, and compliance practices into project delivery while coordinating audits, quality reviews, and performance evaluations to support continuous improvement.

This position develops and implements QA/QC processes, conducts deliverable reviews, and establishes performance benchmarks to enhance construction efficacy and alignment with TDOT goals. By analyzing construction data and trends, the Senior Technical Specialist formulates policies to improve quality and reduce risks. This position must effectively articulate technical concepts as part of a matrix organization and through training and mentoring. Additionally, the position coordinates stakeholder collaboration, ensures effective data governance, and supports the efficient, sustainable implementation of TDOT's Asset Management Plan.

Essential Job Responsibilities

Ensure compliance with the Construction Division policies, processes, and standards. Reviews trends in project letting dates, construction costs, and as-bid costs, identifying areas to improve efficiency and effectiveness. Researches and identifies national trends to align TDOT's targets with asset management principles.

Establish key performance indicators (KPIs) and utilize data-driven methods to monitor construction project efficiency, cost-effectiveness, safety, and asset longevity. Analyze project data to identify trends, inefficiencies, and areas for improvement. Prepare comprehensive performance reports for TDOT leadership and stakeholders, ensuring transparency and alignment with TDOT's asset management goals.

Evaluate construction project performance against state, regional, and national benchmarks. Research and integrate best practices to enhance construction quality, efficiency, and cost-effectiveness. Conduct lifecycle cost analyses to assess how initial

construction quality impacts long-term maintenance, rehabilitation, and asset replacement costs, ensuring sustainable infrastructure investment decisions.

Oversee construction contractor and vendor performance, ensuring compliance with asset management objectives, project timelines, and quality standards. Utilizing risk-based assessment methodologies prioritizes quality reviews for high-impact and high-risk projects. Review performance-based contracting and corrective action plans to ensure compliance with TDOT's asset management guidelines.

Develop and implement QA/QC processes to ensure construction projects comply with TDOT specifications, industry standards, and regulatory requirements. Conduct reviews, audits, and performance monitoring to identify discrepancies, mitigate risks, and enhance construction effectiveness. Provide guidance to TDOT construction teams to ensure compliance with asset management principles and federal/state regulations. Establish performance benchmarks and corrective measures to drive continuous improvement, support TDOT's Asset Management Plan, and align projects with strategic goals.

Assist in developing and delivering training programs and workshops to enhance TDOT staff capabilities in quality asset management. Support efforts to create engaging, practical, and results-driven learning opportunities that equip employees with the skills and knowledge necessary to implement effective asset management practices in alignment with TDOT's strategic goals and quality standards. Additionally, evaluate and integrate emerging construction quality management technologies to support data-driven decision-making and continuous improvement in construction asset management.

Audit the construction inspection program to ensure compliance with TDOT's processes, practices, and regulatory requirements. Evaluate adherence to inspector daily reports, material testing requirements and timelines, federal requirements for documentation and payments, TDOT's quality control processes, and all other construction requirements. Recommends improvements to align with asset management principles.

Facilitate communication and collaboration between the Performance and Quality Management Section and the Pavement, Bridge Asset, and Ancillary Infrastructure Asset Sections within TDOT, integrating lifecycle cost analysis, risk mitigation, and compliance into the management of pavement, bridge, and ancillary infrastructure assets. Coordinates audits, reviews, and quality assurance activities to meet performance metrics and asset management objectives, ensuring quality standards and strategies are aligned across all projects.

Coordinate with stakeholders to align construction practices with departmental goals, provide governance policies and systems training, and liaise between asset management teams to address departmental needs ensuring policies address organizational goals and provide a foundation for continuous asset performance and reliability improvement.

Deliver exceptional customer service to project stakeholders by sharing relevant data, ensuring accessible and organized data information, practicing effective communication, and maintaining positive public relations. Respond promptly and accurately to inquiries from the public and department personnel.

Qualifications

- Bachelor's degree
- 3 years of demonstrated competency in project delivery, construction, data analysis, and related technical disciplines.

OR

- Master's degree
- 2 years of demonstrated competency in project delivery, construction, data analysis, and related technical disciplines.

Ideal Candidate

The Construction Senior Technical Specialist in Asset Management is a detail-oriented professional with specialized expertise in quality assurance, audits, and compliance. This position focuses on data analysis and issue resolution to implement effective QA/QC processes and incorporate lessons learned into asset management strategies. With strong communication and collaboration skills, the specialist aligns lifecycle cost analysis, risk mitigation, and compliance efforts with TDOT's strategic goals. Their proactive approach to continuous improvement and stakeholder engagement supports sustainable, efficient project delivery and ensures alignment with the TDOT Asset Management Plan.