

Road & Bridge Tasks in Kansas — Side A



Tasks on this side can only be completed by a **licensed engineer** or under the direct supervision of a licensed engineer.

Engineering

- Establish standards for improvement projects such as bridges, culverts and roads
- Roadway and crossroad culvert design
- Bridge design for county crew construction
- Size crossroad culverts and bridges
- Bridge inspection and load ratings
- Compute drainage areas and runoff rates
- Determining structural repairs on bridges and culverts
- Drainage and flooding studies

Road and bridge construction

- Prepare state & federal permit applications
- Prepare construction specifications
- Construction inspection

Maintenance of road network

- Pavement management system

Planning and zoning

- Review new developments (infrastructure design)
- Review drainage studies
- Standards for new developments

Safety

- Traffic control studies
- Traffic control policies
- Traffic control plans for projects and detours
- Investigate traffic safety related complaints
- Evaluate speed limits

Source: *A Study of the Duties of a County Engineer in the State of Kansas*, by Mulinazzi, Gampa and Russell, Kansas Department of Transportation, 2005.



Kansas Local Technical Assistance Program (LTAP)

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Road & Bridge Tasks in Kansas — Side B

Tasks on this side **DO NOT** require an engineering license.

Administration

- Provide leadership for department
- Budgeting
- Public relations and complaints
- Human resource issues
- Policies with commission

Road and bridge construction

- Prioritize projects
- Prepare project requests
- Budgeting for projects
- Cost estimates
- Negotiate consultant contracts
- Review plans
- Right-of-way acquisition
- Utility relocations
- Advertise and lead projects
- Evaluate bids
- Contract administration

Maintenance of road network

- Surface distress surveys
- Selection of major projects
- Type of maintenance to perform
- Develop annual maintenance program
- Develop multi-year maintenance program
- Evaluate new products and methods
- Budgeting to accomplish work program
- Prepare equipment specification and bids
- Prepare material specification and bids

Miscellaneous

- Maintenance of survey records
- Emergency response issues
- Surveying (requires a surveying license)

Planning and zoning

- Public works input on zoning applications

Safety

- Snow and ice control policies
- Accident record keeping
- Recognize roadway safety issues

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