

Gudenkauf Outside Plant Services Overview

Gudenkauf is a diversified provider of telecommunications, utility, and systems integration solutions. We have the resources and experience to deliver in even the toughest conditions. Our services include outside plant construction, fiber optic splicing and testing, utility locating, intelligent transportation systems, gas line cathodic protection, and emergency restoration services. Gudenkauf proudly serves customers in Ohio, West Virginia, Kentucky, Indiana, Michigan, Virginia, and Pennsylvania.

Outside Plant Construction

Since 1977, our core competency has been outside plant (OSP) construction. Our reputation for quality OSP work was earned through more than 40 years of dedication and commitment to our customers. We can perform any work necessary to design, build, and maintain all types of networks.

Gudenkauf's outside plant construction services include:

- **Underground construction**
- **Aerial cable construction**
- **Pole line construction**
- **Manhole and duct bank construction**
- **Trenching**
- **Directional boring**
- **Plowed (direct bury) cable placement**
- **Fiber, copper, and coax placement**
- **All dielectric self-support (ADSS) cable installation**
- **Hydro excavation services**
- **System overbuilds**

Fiber Optic Splicing and Testing

Gudenkauf's Splicing & Testing Division is comprised of talented managers and fiber optic technicians who focus solely on the craft and technology of fiber optics. We offer a variety of fiber optic services for new construction and existing fiber optic networks.

Gudenkauf's fiber optic splicing and testing services include:

- **Single fusion splicing services**
- **Mass fusion splicing services**
- **Epoxy and polish connector installation services**
- **OTDR testing services**
- **Power meter and light source testing services**
- **Fiber characterization services**
- **Polarization-mode dispersion (PMD) and chromatic dispersion (CD) optical testing services**
- **Fiber optic cable maintenance services**
- **Troubleshooting services**

Utility Location and GIS Mapping

Gudenkauf provides services in this important field to protect your most critical infrastructure and reduce your liability. We can identify the location and map utilities including water, electrical, gas, telecommunication, and sewage.

Gudenkauf's utility locating services include:

- **Utility location**
- **GIS mapping**

Intelligent Transportation Services (ITS)

Optical networks have become critical to the operation and effectiveness of traffic and signalization systems. These networks can be used to simply link a series of stoplights or more complex digital video cameras, traffic sensing devices, and dynamic message boards.

Gudenkauf is an Ohio Department of Transportation Certified Contractor for the following categories:

- **1: Clearing and grubbing**
- **38: Misc. concrete**
- **39: Maintenance of traffic**
- **43: Highway lighting**
- **44: Traffic signals – standard**
- **46: Landscaping**
- **55: Fiber optic cable installation, splicing, termination and testing – traffic signal system**
- **56: Fiber optic cable installation, splicing, termination and testing – intelligent transportation system**

Pipeline Protection

The protection of underground metallic gas and oil transmission pipelines is crucial for maximizing the safety and lifespan of the system. Gudenkauf is an expert in testing and installing both types of cathodic protection (CP) systems - galvanic and impressed current.

Emergency Restoration Services

Damages to a telecommunications system can be extremely costly. Gudenkauf has a long track record of responding to and repairing these unplanned outages. We employ several teams of skilled crews who are available 24 hours a day, 7 days a week, 365 days a year. We can ensure your downtime is minimized without sacrificing safety on the jobsite.

Gudenkauf's emergency restoration services include:

- **On-site damage assessment**
- **Fiber testing and trouble shooting**
- **Conduit repair**
- **Strand and cable placement**
- **Directional boring**
- **Hydro excavation services**
- **Pole installation**
- **Copper splicing**
- **Fiber optic splicing**

Contact Gudenkauf Today: (614) 488-1776