

VENUS ASSET MANAGEMENT & ENGINEERING SERVICES LTD

COMPANY BROCHURE AUGUST

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BRIDGE EXAMINATIONS

WHAT SERVICES TO WE OFFER?

Our team of experienced professionals specialise in comprehensive examinations, ensuring the safety and longevity of these critical structures. With a meticulous approach, we conduct thorough inspections, utilising innovative technology to identify any potential damages and weaknesses. Our services encompass visual/general and detailed/principal inspections, providing our clients with detailed reports and recommendations. Our clients trust us to provide such services to minimise risk to the railway and to the general public whilst enhancing the reliability of the infrastructure.

Visual & General Inspections:

Conducting a detailed examinations to the entire bridge structure, including super structure, substructure and foundations to identify and visibly see signs of distress, deterioration or damage.

Detailed & Principle Inspections:

Conducting a full detailed examination of the entire bridge structure within touching distance, utilising equipment, specialist access where necessary and the latest innovative technology such as snake cams, drones etc. From these full tactile examinations, our clients gain in depth knowledge of the general health of the infrastructure.

Documentation & Reporting:

Compiling a comprehensive report to Network Rail standards includes findings from the completed inspections, analysis results and detailed recommendations for maintenance, repair or further evaluation. These reports will include photographic evidence to back up our written findings. Our reports will serve as a valuable reference for future decision making and compliance documentation.



CULVERT EXAMINATIONS

Our professional team specialises in a multitude of inspection services and more commonly Culvert Examinations. Our Culvert Examinations Service will ensure optimal functionality. Structural integrity and safety of your Culvert Infrastructure. Here at V.A.M.E.S, we are a reputable provider of engineering services and we are thoroughly dedicated to delivering thorough and concise inspections for a variety of culvert types.

HOW DO WE WORK?

Inspection:

Conducting a meticulous examination of the entire culvert structure. This includes the inlet and outlet areas, the barrel and the surrounding environment to identify visible signs of deterioration, damages and blockages.

Sediment and Debris Removal:

If required, we implement measures to remove the accumulated sediment, debris or other obstructions that may affect the functionality of the culvert and contribute to future issues.

Structural Assessment:

Our team will evaluate the structural integrity of the culvert through visual inspections and when necessary, use non-destructive testing methods to identify any hidden defects or structural weaknesses.

Documentation & Reporting:

Compiling a comprehensive report that will include findings from the inspection, structural assessment outcomes and detailed recommendations for maintenance, repair or replacement.

This report serves as a valuable tool for proactive asset management and regulatory compliance



ADDITIONAL EXAMINATIONS

WHAT IS OUR OBJECTIVE:

Our primary objective of our services is to conduct Network Rail Standard Inspections and Assessments of these critical structures. Identifying potential issues, evaluating their current condition and providing actionable recommendations for maintenance, repair or further evaluation.

Signal Gantries:

Visual inspections of gantry structures, including support members, connections and foundations. Assessment of the electrical and mechanical components related to signal systems. Evaluation of corrosion, fatigue and generalised wear and tear.

Retaining Walls:

Inspections of the retaining wall structure include foundations and drainage systems. Analysis of the wall's stability, looking for signs of settlement or movement. Assessment of potential erosion and scour issues.

Underwater Examinations:

Inspections of the infrastructure that may span water courses and cannot be reached by foot. We use several methods of access from boats to pontoons. The inspection of these structures is slightly different to land structures, here we check the depths of water, silt and check for scour. With water being so damaging to our infrastructure, we follow these inspections with an extensive report compiled of all findings from our underwater examination.

Equipment Support Structures:

Inspections of support structures for various equipment, ensuring they meet safety and compliance standards. Evaluation of structural integrity and load-bearing capacity and overall assessment of corrosion and the effectiveness of protective coatings.

V.A.M.E.S CCTV UNIT

Our confined space CCTV crawler unit, offer a wide range of benefits for various industries and applications. These innovative devices are specifically designed to access and inspect hard-to-reach areas, providing a cost-effective and efficient solution for a variety of tasks. Here are some of the key benefits of using a confined space CCTV crawler unit:

- 1. Increased Safety:** One of the primary advantages of using a confined space CCTV crawler unit is the enhanced safety it provides for workers. By utilizing remote-controlled technology, operators can inspect hazardous and confined spaces without putting themselves at risk. This reduces the likelihood of accidents and injuries, making it a safer option for industrial inspections. We can attach safety features such as a gas detector or sonde if required.
- 2. Versatility:** Our CCTV unit is highly versatile, capable of navigating through a wide range of environments and obstacles. Whether you need to inspect pipelines, tanks, ducts, or other confined spaces, these units can easily manoeuvre through tight spaces and around corners to provide a comprehensive inspection.
- 3. High-Quality Imaging:** Confined space CCTV crawler units are equipped with high-definition cameras that provide clear and detailed images of the interior of the space being inspected. This allows operators to identify potential issues, such as corrosion, leaks, or blockages, with precision and accuracy. Our CCTV unit also offers advanced features such as 4k video, pan-and-tilt capabilities, zoom functions, and adjustable lighting up to 10,000 lumens to ensure a thorough inspection.
- 4. Cost-Effective:** Using a confined space CCTV crawler unit can help reduce the overall costs associated with inspections and maintenance. By avoiding the need for expensive and time-consuming manual inspections, businesses can save both time and money. Additionally, these units can help prevent costly downtime by identifying and addressing potential issues before they escalate.
- 5. Remote Operation:** Our unit can be operated remotely & wirelessly, allowing operators to control the device from a safe distance. This feature enables inspections to be conducted more efficiently and effectively, without the need for personnel to enter potentially hazardous spaces. We can work up to 340m away from the unit using our range extender.



A person wearing a blue helmet and an orange high-visibility vest with the V.A.M.E.S. logo is seen from behind, looking towards a drone flying in the sky over a field of tall grass. The drone is a quadcopter with a camera mounted underneath.

DRONE TECHNOLOGY

WHAT DOES THIS ENTAIL?

Enhancing your work with aerial precision. Drones provide unparalleled access to hard-to-reach areas such as elevated tracks, tunnels and bridges without the need for costly potentially hazardous manual inspections. This enhanced accessibility allows for more frequent and comprehensive assessments, thereby facilitating early detection of potential defects or safety concerns.

Safety First

Our drones enable thorough inspections of challenging areas on structures while ensuring complete safety for all personnel.

Rapid Response

Using our drones for urgent tasks can swiftly address areas requiring immediate attention.

In-Depth Analysis

Obtain real-time visuals of structures, uncovering potential defects invisible to the naked eye.

Efficiency Optimised

Minimise on-site labour requirements and any footage can be sent directly.

Seamless Delivery

Receive complete video footage directly, complementing any detailed reports.

Uninterrupted Operations

Gain comprehensive elevation and aerial perspectives of tracks without interfering with any on-track movement.

ROPE ACCESS

WHAT IS OUR OBJECTIVE:

Safety is our top priority, and our IRATA-certified technicians undergo rigorous training and assessment to ensure they have the knowledge and skills to work safely at height. By using industry-leading rope access techniques, our teams can access difficult-to-reach areas with ease, eliminating the need for expensive scaffolding or heavy machinery. This not only reduces the risk of accidents but also minimizes the impact on the surrounding environment.

In addition to safety, our V.A.M.E.S IRATA teams offer unparalleled efficiency and cost-effectiveness. By utilizing ropes and harnesses, our technicians can complete tasks quickly and efficiently, saving you time and money. With our streamlined approach to work at height and confined space operations, you can expect faster project completion times and reduced overall costs.



ROPE ACCESS

Our projects have included but are not limited to-

Structure Inspections

De-vegetation works and Site clearances

General cleaning at heights

Roof repairs on flat roofs with Evercryl instant waterproofing roof repair paint

Confined Space Works

Assisting electrical work and cable maintenance

Assisting riggers with their works

Fitting safety nets for any debris

Changing lights at height

Cleaning of pigeon guano using specialised spray before removing

Repairing absorber ducts (tech bolting sheets back) and re-sheeting

Assisting decommissioning teams, lowering materials





V.A.M.E.S COMPETENCIES

At VAMES Ltd, we believe that continuous learning and professional development are key to maintaining excellence and staying ahead in our industry. We are thrilled to announce that several of our in-house dedicated team members have recently completed a series of prestigious training courses.

Our current competencies include -

STE4

DEFRA Module 1

Chainsaw Maintenance and Cross Cutting

IRATA Level 1 - 3

First Aid

High Risk Confined Spaces

Confined Space Management

IPAF

PASMA

Hand Held Hedge Trimmer

Leaf Blower/Brushcutter/Trimmers

MATS

RYA

GET IN TOUCH

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