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- **CSTA Global are an established and trusted “go to” source for guidance and information for our clients and the leading provider of Underground Service Protection Qualifications.**



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- **Prior to 2012 there was no recognisable qualification for those who were delivering utility mapping surveys to high profile projects and clients.**



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- **This Established a Much Needed Standardisation of Underground Utility Avoidance & Location Training in 2012, 2 years before the introduction of PAS 128**



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- **PAS 128 is the Publicly Available Specification used for the delivery of utility mapping surveys giving clients greater confidence in the accuracy of the results.**



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- **However, this level of survey only represents a small portion of the whole Underground Service Protection Process,**



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- **Primarily delivered at the design and planning stage of a project a PAS 128 survey needs to be continually supported at the Coal Face when the construction phase is underway.**



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**Why?**



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# **2017 & 18 Utility Strike Damages Report**

## **Prepared by the USAG Data & Reporting Working Group**



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- **There are over 10,000 works taking place every day across the UK**



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- **The utility networks that run over our heads and below our feet extend to over 1.5 million km**



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- **Based on a 5-day working week there was a reported average of approximately 276 service damage incidents per day.**



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- **Bearing in mind that this is only from data collected from respondents to the USAG request for information which unfortunately does not represent the whole of industry.**



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- **The majority (over 50%) of the strikes took place in footpaths, carriageways and verges which continues the trend from previous years.**



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- **Most service strikes are occurring from contact with hand tools and mini diggers up to 5 tons**



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- **We get an almost weekly request to deliver a basic CAT & Genny course on Monday morning as we need to excavate at 10 am**



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- **CITB minimum requirements only requests 3 hours training on this safety critical subject.**



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# Training Standard



|                   |  |
|-------------------|--|
| Title             | Detection of buried services for construction  |
| Duration          | Minimum ½ day of 3 learning hours  |
| Purpose/<br>scope | <p>The purpose of this standard is to provide candidates with the knowledge and skills to safely locate buried services using the cable avoidance tool (CAT) and generator (genny).</p> <p>The scope of this standard covers:</p> <ul style="list-style-type: none"><li>• HSG47 requirements</li><li>• locator operation, theory, limitations.</li><li>• using CAT and genny locators and software</li><li>• inspection, calibration and testing equipment</li><li>• safe working practices</li><li>• permit to work</li></ul> |



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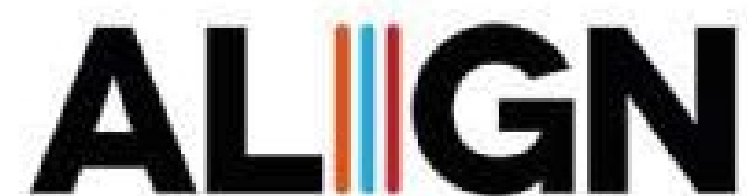
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- **Fortunately, most responsible contractors appreciate that this is not sufficient or acceptable**



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- **Working in collaboration with many of the major Tier 1 organisations has helped us to establish a more widely accepted and appreciated standard of training with a minimum requirement of more than double the required CITB standard.**



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- **EUSR Endorsed, BPAUS (Best Practice for Avoiding Underground Services)**
- **EUSR Category 1, Locating utility services**
- **EUSR Category 2, Excavating around utility services**
- **Pro Qual Level 2, Locating and avoiding buried services**



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- **Minimum of a full day training course with no limitation on equipment manufacturer.**
- **This is service protection process training and not just which button to press.**
- **The clients and learners need can determine the course content and delivery.**
- **Service protection is not just CAT & Genny training but an end to end process.**



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- **Traditional CAT & Genny training only represents the use of a single item of technology capable of locating around Two Thirds of services**



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- **We need to change terminology to consider underground service protection with the final user of a traditional “scanner” being only the final part of the puzzle.**



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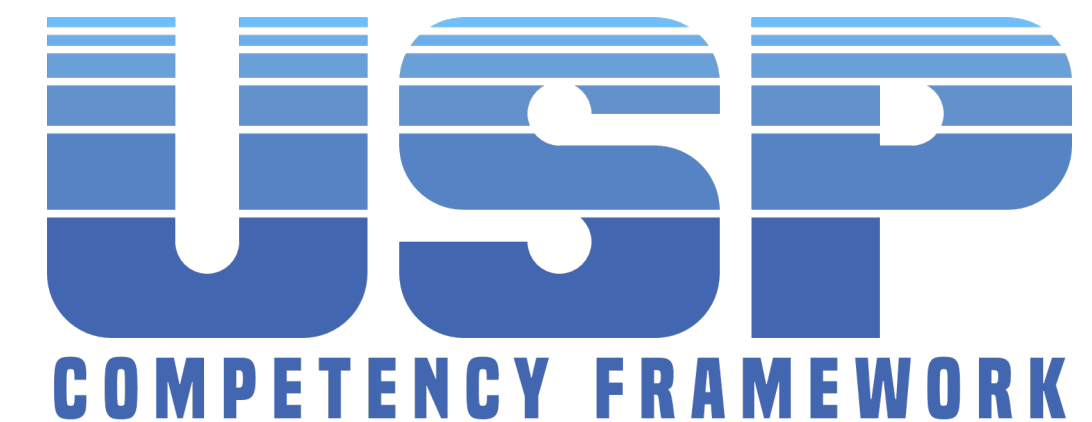
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- **We are now embarking on a new project to further the confidence and subsequent competence of individuals who are involved with all aspects of Underground Service Protection.**



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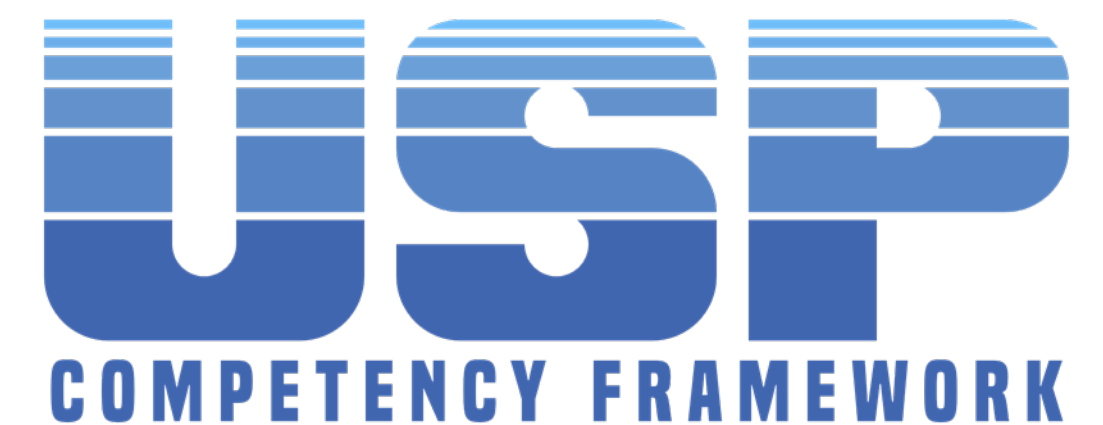


- **Our USP Project has identified 6 key duty holders with a goal to educate and enhance industry thus creating a significant reduction in service damage.**



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## **1. Operative/End User,**

**Responsible for the point of work location, avoidance of buried assets followed by reinstatement and making good which serves to ensure likelihood of ongoing protection,**

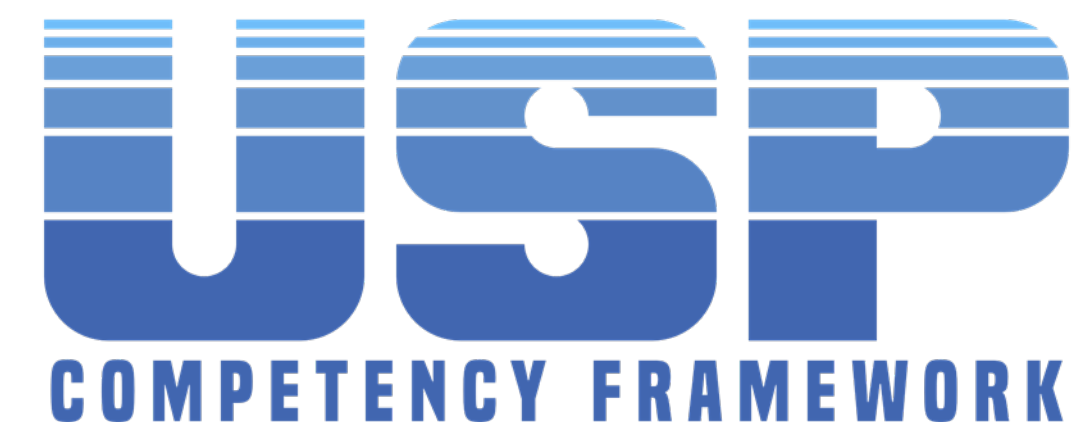
## **2. Supporter/Supervisor**

**Individual/s responsible for the supervision of duty holder 1 and potentially a supporting user of service protection equipment.**



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### **3. Manager/Auditor,**

**Individual with responsibility for ensuring Duty holder 1 & 2 are carrying out their roles correctly and according to their assigned competency and level of training.**

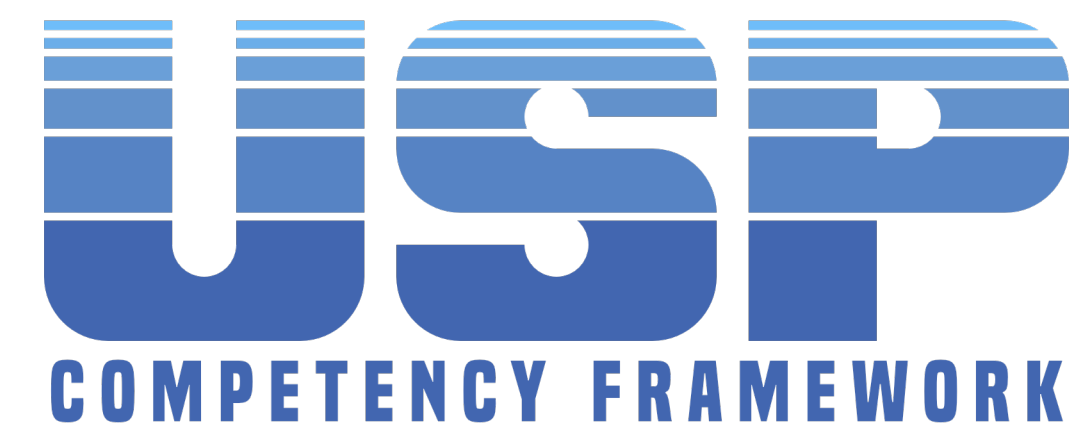
### **4. Administrator/Coordinator**

**Drawings and information coordinator responsible for obtaining all available relevant services information either from the client in order to comply with CDM legislation or as an active process throughout the lifecycle of a project.**



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## **5. Surveyor/Practitioner**

**The provision of site utility mapping and surveying services at the planning and design stage of a project,**

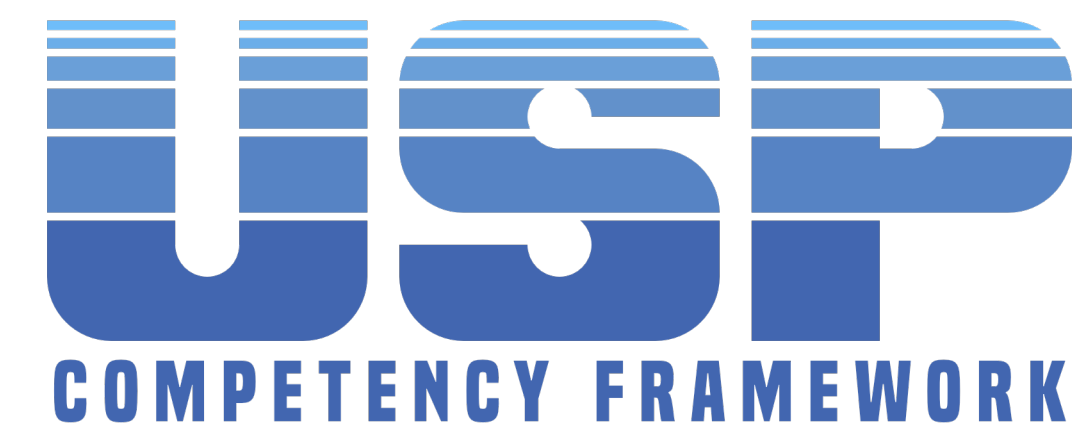
## **6. Controller/Principle-Controller**

**Full responsibility and accountability for duty holders 6 through 1, recognised as an individual with budgetary and decision-making ability**



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- **Compliance with current Guidance such as HSG 47 and legislation such as the Health and Safety at Work act plus any specialism related regulations relevant to an employers practices is not achieved by a single silver bullet training course.**



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- **End to end implementation and engagement with all aspects of Underground Service Protection processes can help us to significantly reduce service strikes and the risks of serious, often life changing injuries to people.**



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