**Excavation Safety Class: Course Outline and Objectives**

**Course Objective: To provide participants with comprehensive knowledge and skills to recognize, evaluate, and safely work in excavations and trenches, in accordance with OSHA regulations and industry best practices.**

**Target Audience: Construction workers, equipment operators, supervisors, safety personnel, and others involved in excavation operations.**

**Course Modules:**

1. **Introduction to Excavation Safety**
	* **Defining excavations and trenches**
	* **OSHA standards and regulations (29 CFR 1926 Subpart P)**
	* **Role and responsibilities of the competent person**
2. **Hazard Identification and Risk Assessment**
	* **Common excavation hazards (cave-ins, falls, struck-by incidents)**
	* **Soil classification and testing methods**
	* **Recognizing unstable soil conditions**
3. **Protective Systems**
	* **Types of protective systems: sloping, benching, shoring, and shielding**
	* **Selecting appropriate protective systems based on soil type and depth**
	* **Installation and removal procedures**
4. **Safe Work Practices**
	* **Access and egress requirements**
	* **Exposure to vehicles and falling loads**
	* **Working around underground utilities**
	* **Water accumulation and drainage issues**
5. **Equipment and Tools**
	* **Safe operation of excavation equipment**
	* **Proper use of ladders and other access equipment**
	* **Personal protective equipment (PPE) requirements**
6. **Emergency Response and Rescue**
	* **Developing emergency action plans**
	* **Rescue procedures and equipment**
	* **Coordination with emergency services**
7. **Inspection and Documentation**
	* **Daily inspection requirements**
	* **Record-keeping and documentation practices**
	* **Corrective action procedures**
8. **Practical Exercises and Case Studies**
	* **Soil classification exercises**
	* **Protective system selection scenarios**
	* **Hazard recognition in real-world situations**

**Key Takeaways:**

* **Participants will understand OSHA requirements for excavation safety.**
* **They will be able to identify and mitigate common excavation hazards.**
* **Participants will learn proper selection and use of protective systems.**
* **They will gain knowledge of safe work practices and emergency procedures.**

**Delivery Methods:**

* **Instructor-led training with hands-on components**
* **Practical exercises and case study analysis**

**Certification:**

* **Successful completion leads to an Excavation Safety certification (valid for a specified period, typically 1-3 years)**

**This course is designed to meet OSHA compliance requirements and provide comprehensive training for workers involved in excavation operations, emphasizing hazard recognition, safe work practices, and regulatory compliance.**