STA Certified Programme in Road Restraint Systems (RRS)

In the European Union, more than 28,000 fatalities and 1 million of road accidents involving personal injury take place every year, with the additional result of an unknown number of permanently handicapped persons.

The **EN 1317 European Standard** was developed within the framework of the Construction Products Directive 89/106/EEC and EN1317-5 serves as a basis for the CE marking of road safety systems such as safety barriers and guardrails, crash cushions, barrier extremities and transitions. Years of research, testing and standardisation efforts have led to a major step ahead for addressing at least 30-40% of road fatalities; however, a number of challenges are still on the table.

Up to 50 participants	Duration: 2 days (16 hours)
Target groups	**Areas of knowledge**
- Transport Ministries - Road Directorates - Engineering consultancies - Contractors / concession operators - Road Safety Manufacturers - Students (departments of civil & mechanical engineering)	The main objective of this Programme is to provide an overview of the legal framework related to RRS, as well as the best international practice, focusing on the following topics: - The five pillars of Road Restraint Systems - Installation of RRS and legal responsibilities. - The role of EN 1317 European Standard: in-depth review - Differences and similarities between US and EU standards. - What is the CE marking and which are its implications? - Direct applications of European Standard on RRS in the context of call for tenders - Monitoring and audit of RRS installation

Outcomes

- Understand **how different RRS work** and risks associated to bad practice.
- Learn the **application** rules of EN 1317 European Standard.
- Select the **most suitable RRS system** according to the specific road safety policies and types of road network.
- Identify and assess **safety needs**; monitor safety goals related to RRS.

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