Bus class I/II/III: Certification services
WHO: SI-TÜV Italia partnership for more than 15 years.

WHAT: Certification services, through an independent third party, according to ITA-EU standards (CUNA, UITP, ASSTRA, ISO,...).

HOW: Experimental test, data analysis and technical report.

PROVIDED SERVICES: STANDARD TEST

- **Energetic consumption**
  - CUNA 503-01
  - CUNA 003-01
  - SORT 1-2-3
  - On road usage

- **Pollutant emission**
  - DIR. 2009/33/CE
  - On road usage

- **Noise**
  - CUNA 504-01/02
  - CUNA 504-03
  - CUNA 504-04
  - UNI 9838
  - UNECE 51
  - D.lgs. 81/2008

- **Auxiliary performance**
  - Impianto A/C:
    - ANSI/ASHRAE 51
    - CUNA 575-01,02
    - CUNA 586-06
  - ASSTRA electrical system
  - ASSTRA pneumatic system

- **Vibration**
  - ISO 2631
  - ISO 5349
  - EN1032 – EN12096
  - D.lgs. 81/2008

- **Dynamic performance**
  - CUNA 503-03
  - CUNA 503-04
  - CUNA 503-06
  - CUNA 503-08

** ALSO FOR ELECTRIC AND HYBRID **
PROVIDED SERVICES: SPECIAL TEST

**Floors friction**
- Determination of floors friction coefficient - Method B.C.R.A.

**ATS vibration**
- Measure of the vibration level of the ATS (After Treatment System)

**Door closing force**
- Measure of the door’s closing force according to UNECE 107

**Strain gauges measurements**
- Measurement with strain gauges to obtain the stress status

**Absorption of platform for disabled**
- Measurement of the electrical absorption of the platform for disabled

**Compliance check**
- Certification of the compliance to the tender’s specifications
NUMERICAL SIMULATION OF THE VEHICLES BEHAVIOUR ON VIRTUAL ROAD:

- fuel consumption calculation (on route test, SORT test...) in different load conditions;
- longitudinal/lateral/vertical dynamics;
- hybrid engine optimization;
- simulation of real road with traffic and pedestrian, radar and ADAS logics...
STRENGTH POINTS

- Compliant to standard ISO 17025.
- Engineering and execution of extra-catalog services requested specifically by the customer.
- Adequacy to standards to provide to customer traceability and repeatability of obtained results.
- Short intervention time (only 5 working days).
- Technical reports within 24 hours from the end of experimental activities.
- Possibility to develop software for data analysis following customer’s requirements.
We offer a **complete «turnkey service»** for the execution of the test in full autonomy. On request it is possible to provide the following services:

- vehicle transfer at the place chosen for the test;
- engagement of professional test driver, with decennial experience in test execution, including test plate and professional liability insurance;
- test track renting;
- loading/unloading of the vehicle;
- controlled temperature room renting for A/C test.
Per info: postmaster@si-ita.it +39 0341 320755