

How to become an Acoustics Technician (Professional Acoustician) in Italy

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Prato, Italy

4 October 2018



Professions in the EU Framework

Directive 2006/123/EC on internal market services

Directive 2005/36/EC on the recognition of professional qualifications;

Regulated profession: activity, or group of professional activities, the exercise of which is subordinated, directly or indirectly, to the possession of certain professional qualifications, established by legislative, regulatory or administrative provisions,

In particular, in Italy, the law regulates the use of the professional title Acoustics Competent Technician (defined by Law 447/95)



The Professional Acousticians in Italy

The Italian Legislative Decree 42/2017 redefines the professional figure of the **Competent Technician in Acoustics** in order to adapt it to the EU regulations.

EU Regulations

- Directive 2006/123/EC on internal market services
- Directive 2005/36/EC on the recognition of professional qualifications;

In doing so, the transposition provisions introduce into the national framework what is expected at European level in terms of **continuing professional development (CPD)**, prescribing the need for **continuous training**.

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Provisions on the harmonization of legislation
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The Professional Acousticians in Italy

The **Law n. 4/2013** established provisions and regulations relating to “not organized” in institutionalized professional orders or colleges.

The Italian Legislative Decree 42/2017 establish that the profession of **Competent Technician in Acoustics**, referred to in Article 2 of the Law of 26 October 1995, n. 447, belongs to the professions not organized according to the Law n. 4/2013.

The **Competent Technician in Acoustics** is a “not organized” profession. But it is a “regulated” profession.



How to become a Professional Acousticians in the EU Framework

The definition of a regulated profession of Directive 2006/123 / EC recalls the one given in Directive 2005/36 / EC which, coherently, introduces the mirror concept of regulated education and training

Regulated education and training specifically oriented to the exercise of a specific profession consists of:

- a course of study completed,
- a vocational training,
- a training period or a professional practice.



How to become a Professional Acousticians in Italy

The National Register of experts qualified to carry out the profession of Competent Technician in Acoustics is established at the Ministry of the Environment.

It is based on data entered by the Regions, according to approved applications from candidates.



How to become a Professional Acousticians in Italy

Requirements for registration

Bachelor's or master's degree in technical or scientific subjects, plus and at least one of the following requirements:

- a) having successfully passed the final examination of a university master with a module of at least 12 credits dealing with acoustics, including at least 3 of acoustics laboratories;
- b) having successfully passed the final examination of a course in acoustics for competent technicians, referred to a proposed scheme (course program);
- c) having obtained at least 12 university credits in acoustics, including at least 3 of acoustics laboratories, issued for exams related to courses whose program will resume the contents of the proposed scheme (course program);
- d) having obtained the title of PhD, with a doctoral thesis in acoustics.

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national legislation on noise pollution



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The Table of Course Program (Proposed Scheme)

<i>Modules</i>	<i>Hours</i>
Fundamental acoustics	8 - 12
Sound propagation and room acoustics	12 - 14
Instruments and Procedures for noise measurements	10 - 14
National / Regional / Municipal regulations	8 - 12
Traffic Noise and Railway noise	6 - 8
Aircraft and Harbor noise	6 - 8
Other National and EU regulations and directives	6 - 8
Building acoustics	10 - 16
Criteria for planning, mitigate and control of noise emissions	16 - 20
Noise and vibration in working places	12 - 24
Legal (forensic) acoustics	6 - 8
Training on the use of sound level meters and relative software	15 - 30
Training on the use of building acoustics software	15 - 20
Training on the use of noise propagation software	15 - 20

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How to become a Professional Acousticians in Italy

The Scheme for Courses

Courses in acoustics for competent technicians are given by from universities, research bodies or institutes, registers, colleges and professional orders, as well as institutions and companies eligible for the training which can document the presence of teachers with the qualifications of competent technician in acoustics and documented experience in the field.

Courses end with an exam, held by a commission composed of two expert members chosen from among the teachers of the course and a member indicated by the region.

A final certificate of proficiency is provided.



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How to become a Professional Acousticians in Italy

The Scheme for Courses

For the purposes of validity for the recognition of the qualification of a competent acoustical technician the course must respect the following requirements:

- a) the duration of the course can not be less than 180 hours, including at least 60 hours of practical exercises;
- b) the minimum contents of the course must correspond to those indicated in the proposed Program Table;
- c) courses are recognized by the region in which they are organized and are valid on the whole territory national.

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Professional updating of the Italian Acoustician

Annex 1 to the decree 42/2017, under point 2 (Professional update), states that, for the purposes of professional updating, those enrolled on the national list must participate, over a five-year period, in refresher courses for a duration (minimum) total of 30 hours, spread over at least three years.

The successful participation in the courses must be communicated to the region of residence, in the form of self-certification.

The refresher courses are organized exclusively by:

- Universities,
- Research institutions or institutes,
- Professional boards, colleges and professional associations,
- Subjects suitable for training, recognized by regional or national accreditation systems.

LEGISLATIVE DECREE 17 February 2017, n. 42.
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The Professional Acousticians in Italy

A possible definition ...

... certified experts in Environmental Acoustics with mandatory training, apprenticeship and certification as "Competent" or "Qualified" Acoustician by National or Regional authorities, responsible of managing and updating the list of members.

Problem: different criteria in different countries, regions, provinces...

Roles ...

... technical interface for (real, presumed, potential) polluters and (real, presumed, potential) polluted, and control authorities and policy makers.

... forensic assistant , technical auxiliary of the Judge in legal disputes regarding noise.



The Professional Acousticians in Italy

Tasks related to END

In the END implementation professional acousticians, and teams of professional acousticians grouped in PMI, work as high level consultants who assist the Local Governments in developing noise maps and, above all, action plans.

Other Tasks

They act mainly as acoustic designer of actions and solutions:

- for noise mitigation and reduction of annoyance,
- for comfortable soundscapes in urban spaces
- for listening good sounds in well insulated buildings



Problems for the Professional Acousticians in Italy



- buildings do not comply with standards and good practice rules
- environmental noise added to neighborhood noise
- absence, incompleteness, lack of consideration of the acoustic project
- changes during construction
- superficial and permissive controls (no control)



In projects regarding urban areas and buildings acoustics is considered a secondary component in terms of impact on the overall budget and on the specific budget for the design.



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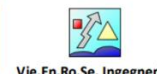
IMPROVEMENT OF ENVIRONMENTAL NOISE MANAGEMENT SKILLS ON AUDITS
NOISE TRAINING PROJECT 2017-1-TR01-KA202-046790



T.C.
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POLITECNICA



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Thank you for your attention

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