This dissertation begins with the state of the current art of the subject we analyze, bringing to light, that even though certain efforts are made by the institutions like the FIB (Federation Internationale du Beton) in adapting some regulations for certification ISO 9001 in the world of the construction encompassing the execution of concrete structures, implicitly is excluded as a normal process and is treated like a special process for its lack of industrialized and repetitive process, losing like this a certain validity in its direct application. Even so there are cases like the certification process of AIDICO, a company that gives ISO 9001 certification for assemblies prefabricated of steel, which passes through certain industrialization. To establish a methodology of certification of the constructive process of structures of concrete in construction and civil work, within the area of the EHE, the first step is to identify and define the key processes and be the human teams that participate in these. From this point, the requirements and the tolerances can be describes to accomplish each activity that has to be carried out. In order to reach all the elements of a concrete structure, the activities have been structured in elements of foundation, elevations, forged and beams including activities that go from the reconsideration of the element, passing through the assembly of scrap until the curate of the surface of the concrete, in each section.

Once all activities have been defined, the rehearsals, the measurements or the inspections to be carried out are analyzed one by one so the activity remains certified. Every inspection, measurement or rehearsal has to have a frequency of clear-cut realization and a established criterion of acceptance or rejection. It is necessary to say that in the development of this section people always have gone in accordance with the EHE, complemented in certain cases by the PG-3 depending on the nature of the activity. The contribution of the work in this section is to transfer the general character of the regulations to particular case of each activity being a very useful guide for the control of the execution of the work adapted to the element under construction.

Finally, in spite of establishing a methodology of certification for a certain activity, it can be said that in the world of construction, in each activity a high percentage of participation can be adjudicated to the human factor, for which it would be a mistake put out the certification of human teams that can contribute to each activity. In this section the certification of processes established by ACI (American Concrete Institute) has been taken as a clear reference, with an adaptation in our scope of work how it is the EHE. Even though in the construction of a structure many other human processes are involved, those that have been taken in account agreement with ACI, are those that without being some technical qualifications, require a minimum training and are at the same time crucial to have a good outcome of the work. If they aren’t made correctly, they can affect directly the quality of work. These surfaces are those of finisher technician, technician in rehearsals of concrete in technical work, inspector of works of concrete, inspector of the concrete transport, technician in rehearsals of aggregates and concrete in laboratory, supervisor of prefabricated elements assembly.

ACI differentiates the human work processes with and without experience obtaining a supplementary title when this work experience has been acquired. Of course, even when a person has the necessary theoretical knowledge, the work experience is a key factor in the moment of appraising the work of a person. Although in Spain the qualifications are independent of this work experience, in the case of the ACI the qualifications are obtained depending on some minimum requirements in the curriculum of each person. The certification of each of these processes is structured first in a definition of the certification, a collection of sections and knowledge to take in account with the EHE and third some criteria with which the pupil has to examine in order to obtain these qualifications.

In summary, this dissertation intends to be a useful guide for a correct follow-up of a construction, in order to accomplish all the requirements for quality, analyzed step by stop in a concise and concrete way, focused especially for students recent graduated in branches of construction, or people in general that work in the world of execution of concrete structures.