

CHAPTER 6 NUMBERS OF QUALIFIED ENGINEERS

The responses to this chapter must be considered to be indicative. Construction plays a major part in national economies in all member countries. In some member countries it is impossible to obtain data for historical reasons and in others, national statistics group all engineering professionals together.

The questions asked of members were as follows:

6.1 How many qualified engineers are there in your country at present? (If you are providing figures, please specify the date these figures were produced).

6.2 If at all possible, please provide figures according to the categories you use in your country.

COUNTRY	Question 6.1 How many qualified engineers are there in your country at present?	Question 6.2 If at all possible, please provide figures according to the categories you use in your country.
Croatia	The total number of qualified graduate civil engineers is estimated at 5,000, and the number of civil engineers is 4,200, although these are rough estimates only as there are no official statistics.	As stated, there are no official statistics available. The information provided is in fact based on the number of persons employed in the construction industry and complementary industries in the year 2002 (according to 2001 census, Croatia had 4.2 million of inhabitants).
Cyprus	The number of qualified and registered civil engineers in Cyprus is 2,200 (year 2004)	
Czech Rep	The number of qualified engineers is about 90,000 in total.	The number of qualified engineers is about 40,000 at Master level and 50,000 of the other levels.
Estonia	Data on the total number of qualified engineers is not available because until 1991-1992 there was no register of civil engineers. At the same time there were some hundreds of civil engineers in Estonia who had been graduated from colleges of further education of other republics of the Soviet Union.	Not applicable (see previous related response).
Finland	<i>(In this context, what does qualified engineer mean?)</i>	Civil Engineers (M.Sc) 5,300; Construction and Environmental Engineers (Polytechnic Degree/ B.Sc.) 12,600 (Year 2002).
France	A rough evaluation of Civil Engineers acting in the private sector is around	Civil Engineers involved as Civil Servants in central and local public

	70,000.	Authorities are around 8,000.
Germany	There are approximately 1,000,000 engineers of all disciplines.	40,000 civil engineers are registered in the Chambers of Engineers. Another 30,000 are members of different professional associations such as VDI, ZVI, etc.
Hungary	The estimated figure is around 20,000 to 25,000	Data is not available.
Ireland	Around 60,000 is the estimated figure.	For national categories please refer to the web-site and national census figures on www.irlgov.ie and www.cso.ie
Italy	We may estimate that in 2003 about 285,000 Engineers are professionally active in Italy, mostly as employees. Almost 165,000 Engineers are enrolled in the Albo, less than 1,000 of which are 'iuniores' (junior) Engineers (Section B).	Almost all Engineers pursuing the liberal profession, operate in the civil sector either on a part-time or full-time basis.
Lithuania	Data is not currently available in Lithuania to respond to this question.	
Poland	In 2002, there were approximately 2,900,000 engineers of all disciplines in Poland.	In 2002, approx. 200,000 civil engineers, including 95,000 civil engineers registered in the Polish Chamber of Civil Engineers
Portugal	Around 50,000 engineers (2003).	Approximately 12,800 civil engineers are registered at the Ordem dos Engenheiros.
Romania	Presently there are about 43,000 civil engineers and 14,500 civil engineers - college.	Presently there are about 43,000 civil engineers and 14,500 civil engineers - college.
Russia		
Slovak Rep.	The number of qualified civil engineers is estimated approximately to 30,000 (2004).	
Turkey	As the "qualified engineer" concept has not been officially used in Turkey yet, the number of civil engineers is provided hereby. By 2003, there were about 75,000 civil engineers in Turkey. 60.000 of these engineers are members of TCCE, which is a remarkable rate for the country.	
United Kingdom	The figures give the number of engineers registered with the Engineering Council (U.K.) by the end of 2003. According to the Engineering Council's own studies, the number of registered engineers makes up for 38.5% of the total number of graduate	The figures for civil engineers show the current number of registered engineers who are members of the Institution of Civil Engineers. Chartered Engineers: 190,402 (of which 46,415 civil engineers)

	<p>engineers in work in the UK (although not all graduate engineers practice engineering).</p>	<p>Incorporated Engineers: 45,192 (of which 3,108 civil engineers) Engineering Technicians: 12,824 (of which 584 civil engineers)</p> <p>It is worth noting that the percentage of registered women is low, only 3.2% of all Chartered Engineers, 1% of Incorporated Engineers and 1.2% of Engineering Technicians.</p>
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Query re U.K. figures since total membership of ICE is reportedly in excess of 70,000.