



Office for
National Statistics

26th Voorburg Group meeting,
Newport, South Wales:

Introduction: Technical testing and analysis

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Papers and presentations

- Mini presentations Turnover:
 - Agnieszka Matulska-Bachura – Central Statistical Office of Poland
 - Jutta Oertel – Federal Statistical Office of Germany
 - Jakob Kalko – Statistics Norway
- Mini presentations SPPI
 - Jakob Kalko – Statistics Norway
 - Marcel Spanjaard – Statistics Netherlands
 - Johanna Von Borstel - Federal Statistical Office of Germany
- Discussant
 - David Friedman, U.S. Bureau of Labor Statistics

Industry classification

- **NACE rev.2 (71.20) and ISIC rev.4 (7120) directly comparable (no detailed subgroups):**
- **Technical Testing and analysis:** This class includes the performance of physical, chemical and other analytical testing of all types of materials and products such as:
 - Acoustics and vibration testing
 - Testing of composition and purity of minerals etc.
 - Testing activities in the field of food hygiene, including veterinary testing and control in relation to food production
 - Testing of physical characteristics and performance of materials, such as strength, durability, radioactivity etc.
 - Qualification and reliability testing
 - Performance testing of complete machinery: motors, automobiles, electronic equipment etc.
 - Radiographic testing of welds and joints
 - Failure analysis
 - Testing and measuring of environmental indicators: air and water pollution
- Certification of products, including consumer goods, motor vehicle, aircraft, pressurised containers, nuclear plants etc.
- Periodic road-safety testing of motor vehicles
- Testing with use of models or mock-ups (e.g. of aircraft, ships, dams etc.)
- Operation of police laboratories
- This class excludes testing of animal specimens and diagnostic imaging, testing and analysis of medical and dental specimens.

Industry classification

- NAICS 2007 - 541380 Testing Laboratories.
- Very similar to ISIC/NACE in that no separate subgroups but description is more complete:
 - Similar includes to ISIC/NACE but much more detail – 33 separate 'includes'

Product dimension

- As with industry, CPA 2008 (71.20) and CPC ver 2.(83.44) directly comparable
- Both identify five product groups:

CPC Ver 2.	CPA 2008	Description
83.44	71.20	Technical testing and analysis
83.44.1	71.20.11	Composition and purity testing and analysis services
83.44.2	71.20.12	Testing and analysis services of physical properties
83.44.3	71.20.13	Testing and analysis services of integrated mechanical and electrical systems
83.44.4	71.20.14	Technical inspection of road transport vehicles
83.44.9	71.20.15	Other technical testing and analysis services

- NAPCS Product list for NAICS 54138 (testing laboratories) – content different but similar level of detail.

Output and price measurement

- European countries obliged to measure both turnover and prices
 - SBS: Structural Business Statistics (annual turnover amongst other variables)
 - STS: Short Term Statistics (turnover and prices) show short term economic trends
- Output measurement for technical testing = turnover in most cases

Output and price measurement

- Pricing unit of measure – mixed depending on the service being offered. Can be price per unit of time for more complex testing or per test/analysis etc.
- Price methods implemented – a mix depending on the nature of service - model pricing, charge out rates and pricing repeated services.

Questions ?

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