SLOVENIAN INSTITUTE OF QUALITY AND METROLOGY, LJUBLJANA

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SIQ

SIQ is an independent, not-for-profit institution operating in the fields of conformity assessment of products and processes, in the field of metrology and in the field of training.

FIELDS OF ACTIVITY

Conformity assessment of products and processes

- Testing and certification of various types of products listed in the Scope of Activities section; issuing of reports, certificates and other documents of conformity and granting of licences for the use of certification marks.
- Inspection services, i.e.: factory inspection for certified products; conformity assessment of measures in the field of explosion protection (explosion protection documents, installation and maintenance of equipment for potentially explosive atmospheres) and assessment of competence of contractors; inspection of measuring instruments according to regulations; inspection of gaming devices.
- Assessment and certification of management systems and issuing of certificates and other documents of conformity.
- Verification of reports on greenhouse gas emissions, sustainable development and carbon footprint.
- Acting as a notified body for different directives and regulations.

Conformity assessments are performed according to national, international and other standards, as well as to national and foreign regulations.

Metrology

- Holder of two national measurement standards
- Calibration of measurement standards and measuring instruments
- Verification of measuring instruments
- Maintenance of measuring equipment

Research and development

The area of conformity assessment and the area of metrology cover, in addition to their principal tasks, also research, design and development within the scope of quality, metrology, and standardization. This is the basis for registration of SIQ as a research organization.

Training services

Organization of open and closed-group seminars, workshops, courses, conferences and panel discussions for our customers with the aim to share the most up-to-date knowledge and present examples of best practice in the field of management systems and other professional fields.
Organization of intensive training programmes lasting several days.
Issuing of publications.

ADMINISTRATIVE STRUCTURE

SIQ has been founded according to the Law on Institutions and is governed by SIQ Council. SIQ certification system is administered and supervised by the Board of Certification Body.
The members of both governing bodies of SIQ are the representatives of the interested public, economic, industrial and other associations representing the customers of SIQ's services.

HISTORY

1960   The grounds for the development of the activities of current SIQ are laid out in 1960 when the Institute for Automation is founded to ensure promotion of Slovenian electric and machine industry.

1961   Design units of individual factories of Iskra company are incorporated into the Institute for Automation to form a common research & development organization for entire Iskra.

1964   Progressive and systematic development of product testing, measuring techniques, and of activities related to the maintenance of measuring instruments takes place in the then established Sector for Measurements and Quality that operates as a central testing and metrological laboratory of Iskra. That is why the year 1964 is considered as the year of the establishment of the activities of current SIQ. Independence and impartiality are the underlying principles of that Sector from its very beginnings.

1974   The Sector for Measurements and Quality becomes an independent organization, i.e. ISKRA - Institute of Quality and Metrology (ISKRA - IKM).

1987   IKM is separated from Iskra and thus also formally becomes an independent organization.

1992   The Slovenian Institute of Quality and Metrology is founded as a successor to IKM to realize the idea of an institution which will assure harmonization and compatibility with similar testing laboratories and certification bodies in Europe and throughout the world. In this way, new foundations are laid for participation of Slovenia in existing and developing international agreements for mutual recognition of test results.

SI Q

SCOPE OF ACTIVITIES

Activities of a Notified Body

Notified Body No. 1304 under:

- ElectroMagnetic Compatibility Directive (2014/30/EU - EMC)
- Machinery Directive (2006/42/EC-MD)
- Medical Devices Directive (93/42/EEC - MDD)
- Directive on equipment and protective systems intended for use in potentially explosive atmospheres (2014/34/EU - ATEX)
- Radio Equipment Directive (2014/53/EU – RED)
- Noise Emission by Outdoor Machinery Directive (2000/14/EC - Noise)
- Construction Products Regulation (Regulation (EU) No. 305/2011 - CPR)
- Measuring Instruments Directive (2014/32/EU - MID)
- Interoperability of the Rail System within the Community Directive (2008/57/EC)

Product testing

Electrical and mechanical safety

- Testing of safety of electrical and electronic devices
- Testing of safety and essential performance of medical devices
- Testing of safety of laboratory equipment
- Testing of safety of transformers and power supplies
- Testing of safety of luminaires and accessories
- Testing of safety of electrical hand-held and portable tools
- Testing of safety of electrical switch and control devices
- Testing of safety of installation materials
- Testing of safety of machinery, measuring of environmental noise and vibration from machinery
- Testing of safety of road traffic command and control equipment
- Testing of safety of power supply systems for electric vehicles

Electromagnetic compatibility and radio spectrum

- Testing of electromagnetic compatibility of products
- Testing of radio equipment and telecommunications terminal equipment
- Testing of electromagnetic compatibility of automotive components

Testing of gaming devices and technologies

Information security assessment

Testing of equipment intended for use in potentially explosive atmospheres

- Electrical and non-electrical equipment
- Devices and components

Environmental impacts

- Testing of mechanical exposures: vibration, impact and free-fall tests
- Testing of climatic exposures: temperature exposure, exposure to humidity, dust resistance and salt atmosphere testing
- Testing of degrees of protection provided by enclosures against ingress of solid foreign objects, ingress of water,
- and against mechanical impacts.

Interoperability of rail transport

- Assessment of interoperability of rail transport subsystems: energy, control-command, signalling, and rolling stock.

Product certification

- Conformity certification in the regulatory sphere. The certification rules are defined in technical regulations issued by corresponding national authorities.
- Conformity certification based on type testing. Certification documents issued within this procedure are as follows:
  - SIQ certificate of conformity and/or
  - CB test certificate, i.e. an internationally valid certification document issued by the members of IECEE/CB Scheme.
- Conformity certification based on a type test of a product and regular inspection of a manufacturing process, and regular inspection of a product where so required by a certification scheme. Within this procedure, the following documents are issued:
  - licence to use SIQ certification mark;
  - licence to use the common European certification marks (ENEC, CCA EMC);
  - Notification of Test Results (NTR), i.e. an internationally valid certification document issued by the members of CENELEC Certification Agreement (CCA);
  - CAC document within CB-FCS, i.e. a document issued by the members of the international IECEE CB-FCS Scheme;
  - IECEx certificate of conformity, i.e. an internationally valid certification document issued by the members of IECEx Scheme.

Service certification

- Service certification according to eIDAS Regulation (EU) 910/2014

Inspection services

- Factory inspection for certified products
- Inspection of explosion protection measures
- Inspection of measuring equipment
- Inspection of gaming devices

Metrological activities

- Realization, upholding, and maintenance of national measurement standards for electrical quantities, time and frequency
- Maintenance of measurement standards for basic and derived units of electrical and other physical quantities
- Calibration and verification of measurement standards and measuring instruments
- Repair and adjustment of measuring instruments and equipment

Management systems assessment and certification

SIQ performs management systems assessment and certification. Our auditors and experts master a wide range of industry branches, as for example electrical, machine, chemical, and paper industries, and also service organizations, such as hotels, banks, health institutions, schools and public administration. More and more organisations are nowadays establishing an integrated management system of which the main feature is compliance with the requirements of more than one management system: quality management system in combination with environmental, occupational health and safety, food safety or information security management systems, or corporate responsibility. Audits of such integrated management systems are usually jointly performed.

Our services include:

- **management systems assessment and certification according to**
  − ISO 9001 standard (quality management system)
  − ISO 14001 standard (environmental management system)
  − EMAS scheme (eco-management and audit scheme – Regulation (EU) 1221/2009 and Regulation (EU) 2017/1505)
  − ISO 50001 standard (energy management system)
  − BS OHSAS 18001 standard (occupational health and safety management system)
  − SA 8000 standard and IQNet SR 10 specification (social responsibility)
  − ISO 9001 including HACCP, HACCP system and the following standards: ISO 22000 (food safety management system), IFS (International Food Standard), IFS Logistic, BRC Global Standard for Food Safety
  − ISO 55001 standard (asset management – management systems)
  − ISO/IEC 27001 (information security management system), ISO/IEC 20000 (IT service management system), ISO 22301 (societal security – business continuity management systems), and ISO/IEC 27018 (Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors) standards
  − IATF 16949 standard (quality system in automotive industry)
  − ISO 13485 standard (quality management system in production of medical devices)
  − ISO 15378standard (Primary packaging materials for medicinal products -- Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP))
  − Quality in Education model (quality for the future of education and schooling)
  − ISO 22716 standard (Cosmetics - Good Manufacturing Practices (GMP))
  − NGO model (quality standard for non-governmental organizations)
  − FSC CoC standard (FSC chain of custody)
  − EU Council Regulation no. 333/2011, 715/2013 and 1179/2012 establishing criteria determining when certain types of scrap metal cease to be waste under Directive 2008/98/EC of the European Parliament and of the Council of the EU
  − EN 15224:2012 standard (health care services – quality management systems)
  − Food Supplements Europe Guide to Good Manufacturing Practice (GMP) for Manufacturers of Food Supplements
- **issue of certificates of conformity for medical devices** according to the Act on medical devices (Official Gazette of the Republic of Slovenia, No 98/2009)
- **verification of reports on greenhouse gas emissions** according to the Rules on criteria for verifying reports on greenhouse gas emissions and conditions to be satisfied by a verifier (Commission Regulation No. 600/2012)
- **verification of sustainability reports** according to GRI guidelines (Global Reporting Initiative)
- **verification or calculation of a carbon footprint (series of standards ISO 14064)**

SIQ co-operates with peer foreign institutions on the basis of bilateral agreements and within IQNet – the International Certification Network.

Training programmes

- **Management systems – quality, excellence, environment, energy, occupational safety and health, information security, food safety:** presentation of the requirements and various aspects of ISO 9001, ISO 14001, ISO 50001, BS OHSAS 18001, ISO/IEC 27001, ISO/IEC 27002, ISO/IEC 27005, ISO 20000, ISO 22301, ISO 22000, IFS FOOD standards; establishment of management system and efficient maintenance and integration of a management system with other management systems and models; treatment of legislation; courses for lead and internal auditors; EFQM assessors training; School of Quality, School of environmental management, School of food safety management, School of lean services

- **Production, automotive industry and technical legislation:** presentation of the requirements and specific aspects of IATF 16949, VDA and ISO 13485 standards; establishment of management system and efficient maintenance and integration of a management system with other management systems and models; treatment of legislation; courses for internal auditors, product conformity and CE mark; directives and technical requirements for machines; School of lean production, School of production group manager

- **Laboratories, inspection and certification bodies:** presentation of the requirements of ISO/IEC 17025, ISO/IEC 17020, ISO/IEC 17065, EN ISO 15189 standards; accreditation of a laboratory, control of measuring equipment, measuring uncertainty; validation of methods of analysis, courses for internal auditors; School of quality for analytical laboratories

- **Quality in health care:** presentation of the requirements of EN 15224 and POCT standards; medical laboratories, control of equipment, establishment of a management system in health care, courses for internal auditors

- **Quality in education:** presentation of the requirements of the Quality for the future of education and schooling model; establishment of the model in practice; courses for internal and lead auditors, development planning

- **Human resources management:** a set of business skills training events and drills on employee management: satisfaction, motivation, annual employee performance evaluation interview, communication, competence, work performance an efficiency, mobbing, negotiations, sales, management of working groups
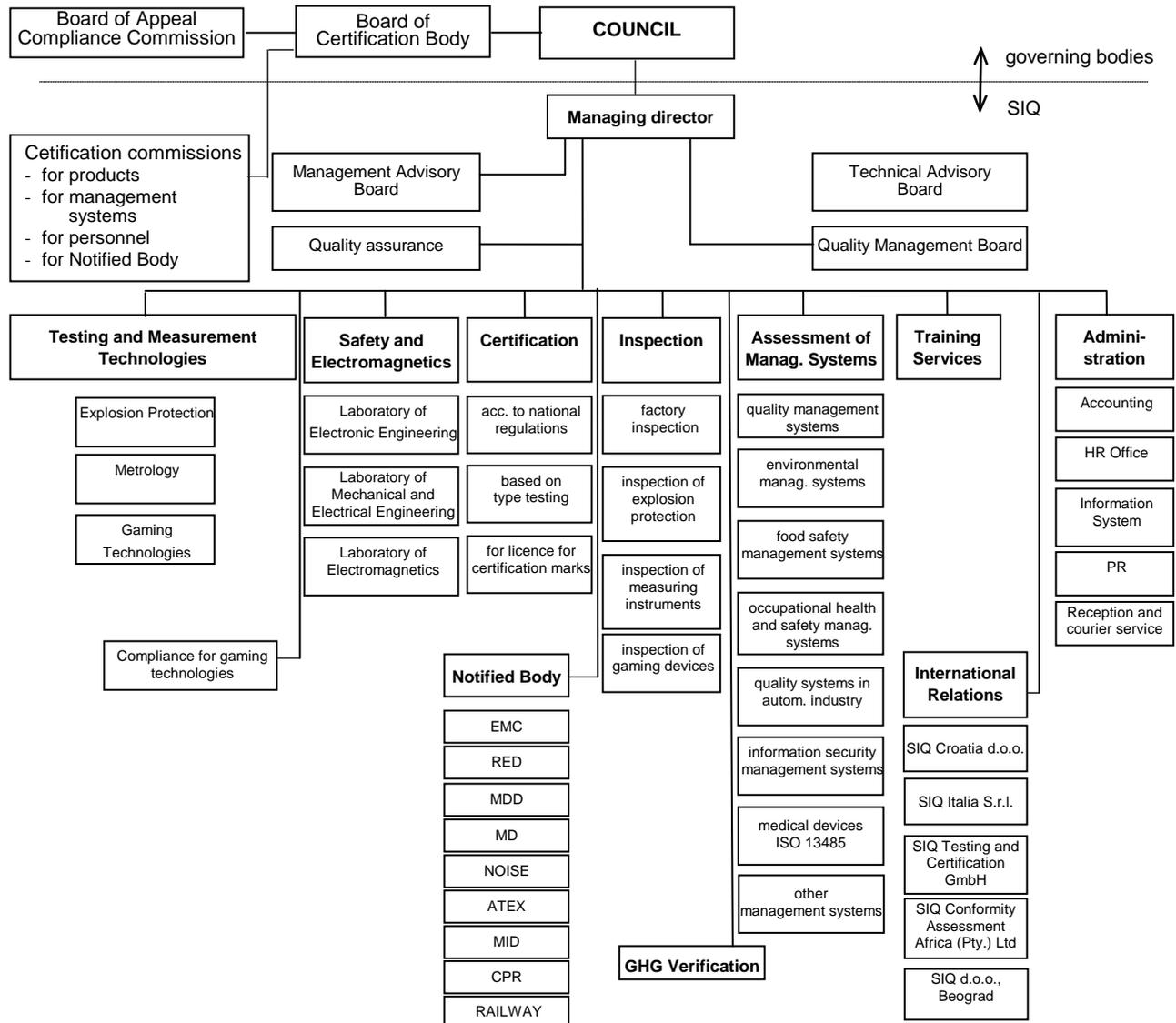
- **Explosion protection**

SIQ IN FIGURES

Employees
permanently employed SIQ Ljubljana	131
permanently employed in firms of SIQ's own (SIQ Italia, SIQ Germany, SIQ South Africa, SIQ Croatia, SIQ Serbia)	33
Freelance auditors and experts	223

Services in 2016

• tests of products	3840
• certifications of conformity	2351
• test reports and certificates that are recognized on international level	1503
• calibrations of measuring instruments and measurement standards	2282
• calibrations of measuring instruments and measurement standards within accreditations	2062
• certifications of quality systems	69
• certifications of other management systems	81

ORGANIZATION DIAGRAM

INTERNATIONAL CO-OPERATION

SIQ participates as a national certification body (NCB) in four multilateral recognition arrangements:

- in **IECEE/CB** and **IECEE/CB-FCS** Schemes, i.e. two schemes set up within the system for testing and certification of safety and electromagnetic compatibility of electrical equipment (IECEE) and under the International Electrotechnical Commission
- in **IECEx** Scheme for testing and certification of electrical equipment for use in potentially explosive atmospheres, and also for assessment of competence of service facilities of equipment for potentially explosive atmospheres
- in **CCA** (CENELEC Certification Agreement) under the European Committee for Electrotechnical standardisation (CENELEC)

Signatory to mutual recognition arrangements on the use of commonly agreed European marks of conformity to standards:

- **ENEC** (European Norms Electrical Certification) - a mark of conformity covering luminaires and accessories, switching devices, transformers, and information technology equipment
- **CCA EMC -** a mark of conformity covering conformity to European standards for electromagnetic compatibility

Member of IQNet – The International Certification Network

- International partnership of organizations providing management systems assessment and certification services

Designated body by the Metrology Institute of the Republic of Slovenia (MIRS)

- Member of the EURAMET (European Association of National Metrology Institutes)
- Member of BIPM (Bureau International des Poids et Mesures)

SIQ

RECOGNITIONS FOR TECHNICAL COMPETENCE

SIQ has been granted accreditations and recognitions by the following institutions:

SA: Slovenian Accreditation
MIRS: Metrology Institute of the Republic of Slovenia
RvA: Dutch Accreditation Council
SANAS: South African National Accreditation System
ATS: Accreditation Body of Serbia

The status of a Notified Body

Notified Body No. 1304 under:
- ElectroMagnetic Compatibility Directive (2014/30/EU - EMC)
- Machinery Directive (2006/42/EC-MD)
- Medical Devices Directive (93/42/EEC - MDD)
- Directive on equipment and protective systems intended for use in potentially explosive atmospheres (2014/34/EU - ATEX)
- Radio Equipment Directive (2014/53/EU – RED)
- Noise Emission by Outdoor Machinery Directive (2000/14/EC - Noise)
- Construction Products Regulation (Regulation (EU) No. 305/2011 - CPR)
- Measuring Instruments Directive (2014/32/EU - MID)
- Interoperability of Rail System within the Community Directive (2008/57/EC)

Accreditations and recognitions of competence for conformity assessment of management systems

- SA – for quality management systems certification
- SA – for environmental management systems certification
- SA – for occupational health and safety management systems certification
- SA – for quality management systems certification in production of medical devices
- SA – for food safety management systems certification
- SA – for energy management systems certification
- SA – for certification according to Council Regulation (EU) No. 333/2011 and 715/2013 establishing criteria determining when certain types of scrap metal cease to be waste under Directive 2008/98/EC of the European Parliament and of the Council
- SA – for an EMAS verifier
- SA – for a verifier of reports on greenhouse gas emissions

Accreditations and recognitions in the field of metrology

- SA – for calibration and inspection of measuring instruments
- MIRS – for a holder of the national measurement standard for electric quantities
- MIRS – for a holder of the national measurement standard for the unit of time and frequency
- MIRS – for verification of measuring instruments

Accreditations for conformity assessment of products

- SA – for testing of products:
  − with regard to a type of testing: electrical engineering, non-ionizing radiation (electromagnetic radiation, electromagnetic compatibility), vibrations
  − with regard to a type of a test specimen: electrical products and equipment, electronics, software (computer hardware), medical devices, construction products, materials and constructions, machinery
- SA – for certification of products and processes
  − product certification based on a type test of a product and on the assessment and approval of internal inspection of production with regular surveillance and internal control of production and a product
  − product certification based on a type test of a product
  − certification of measuring instruments based on a design examination
- ATS – for testing of products:
  − with regard to a type of testing: electrical engineering, non-ionizing radiation (electromagnetic radiation, electromagnetic compatibility)
  − with regard to a type of a test specimen: electrical products and equipment
- ATS – for inspection of products:
  − with regard to a type of testing/inspection: electrical engineering, non-ionizing radiation (electromagnetic radiation, electromagnetic compatibility)
  − with regard to a type of a test specimen: electrical products and equipment

Accreditations for conformity assessment of services

- SA – for service certification: −trust services for electronic transactions in the internal market (EIDAS)

Accreditations for conformity assessment in the field of explosion protection

- SA – for testing of equipment for use in potentially explosive atmospheres
- SA – for certification of equipment for use in potentially explosive atmospheres and certification of factory inspection for manufacture of equipment for use in potentially explosive atmospheres
- SA – for conformity assessment of explosion protection documents; installation and maintenance of equipment for potentially explosive atmospheres; of competence of contractors for installation, maintenance and repair of equipment for potentially explosive; and also identification of the causes for explosions

Accreditations, recognitions and appointments in the field of gaming technologies

Accreditations:
- RvA – for testing of gaming devices
- RvA – for certification of gaming devices
- RvA – for inspection of gaming devices
- SANAS – for testing of gaming devices (SIQ Conformity Assessment Africa (Pty) Ltd)

Recognitions and appointments for testing of gaming devices and internet gaming systems in established gaming jurisdictions of:
- Europe
- Africa
- Asia
- Latin America

SCOPE OF ACCREDITATIONS, AUTHORIZATIONS AND RECOGNITIONS

Notified Body (No. 1304)

Machinery Directive 2006/42/EC	Notified Body for the types of machinery listed in Annex IV to Directive 2006/42/EC (Annex IX – Article 12 (3)(b) and (4)(a), Annex X – Article 12 (3)(c) and (4)(b)), except for: - machinery for underground working (section A12) - machines for the manufacture of pyrotechnics (section A17) - roll-over protection structures - ROPS (section B4) - falling-object protective structures - FOPS (section B5)
ATEX Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres	Notified Body for the equipment referred to in 2014/34/EU Directive.
RE Directive 2014/53/EU	Notified Body for entire equipment covered by Directive 2014/53/EU (Annex III, Annex IV, Annex V)
Directive 2000/14/EC on noise emissions from machinery	Notified Body for the entire equipment from Article 10 of Directive 2000/14/EC (Annex VI, Annex VII, Annex VIII)
Construction Products Regulation (EU No. 305/2011)	Notified Body for the following categories of construction products covered by Regulation (EU) No. 305/2011 (system 1): - Variable message traffic signs (EN 12966) - Signal heads (EN 12368)
MI Directive 2014/32/EU and Rules on Measuring Instruments Official Gazette RS No. 42/2006	Notified body for active electrical energy meters (Annex MI-003) according to Annex H1: Declaration of conformity based on full quality assurance plus design examination
Directive 2008/57/EC on the interoperability of the rail system within the Community	Notified body under Directive 2008/57/EC on the interoperability of the rail system within the Community for the following conventional subsystems: - Energy (Annex IV, Annex VI) - Control-command and signalling (Annex IV, Annex VI) - Rolling stock (Annex IV, Annex VI)
EMC Directive 2014/30/EU	Notified Body for the entire equipment covered by Directive 2014/30/EU

Medical Devices Directive (93/42/EEC)	Notified Body for the following categories of medical devices covered by the Directive 93/42/EEC
	- A:General non-active medical devices
	- Non-active devices for anaesthesia, emergency and intensive care (Annex II, V, VI)
	- Non-active devices for injection, infusion and transfusion (Annex II, V, VI)
	- Non-active devices for orthopaedics and rehabilitation (Appendix II, V, VI)
	- Non-active medical devices with measuring function (Annex II, V, VI)
	- Non-active ophthalmologic devices (Annex II, V, VI)
	- Non-active instruments (Annex II, V, VI)
	- Accessories in pregnancy (Appendix II, V)
	- Non-active devices for disinfecting, cleaning, rinsing (Appendix II, V)
	- Non-active orthopaedic implants (Annex II, V)
	- Bandages and wound dressings (Annex II, V, VI)
	- Suture material and clamps (Annex II, V, VI)
	- Other medical devices for wound care (Appendix II, V, VI)
	- Non-active dental devices and instruments (Appendix II, V, VI)
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	- B:General active medical devices
	- Devices for extra-corporal circulation, infusion and haemopheresis – only infant incubators included (Annex II, V, VI)
	- Respiratory devices (Annex II, III, IV, V, VI)
	- Devices for stimulation or inhibition (Annex II, III, IV, V, VI)
	- Active surgical devices (Annex II, V, VI)
	- Active ophthalmologic devices (Annex II, III, IV, V, VI)
	- Active dental devices (Annex II, III, IV; V, VI)
	- Active devices for disinfection and sterilisation (Annex II, V, VI)
	- Active devices for positioning and transport of patients (Annex II, V, VI)
	- Software (Appendix II, V, VI)
	- Accessories for diagnostic imaging and therapy with ionizing radiation (Appendix II, V, VI)
	- Accessories for diagnostic imaging and radiation therapy with non-ionizing radiation (Appendix II, III, IV, V, VI)
	- Monitoring devices of non-vital physiological parameters (Annex II, III, IV, V, VI)
	- Monitoring devices of vital physiological parameters (Annex II, III, IV, V, VI)
	- Devices that use non-ionizing radiation (Annex II, V; VI)
	- Medical devices referencing the Directive 2006/42/EC on machinery
	- Medical devices in sterile condition – without sterilisation with formaldehyde
	- Medical devices which contain software / use software / are controlled by software

Conformity assessment of products: testing

SA - certificate: LP-009 - standard: SIST EN ISO/IEC 17025 http://www.slo-akreditacija.si/	*Testing of safety of products* Product categories: - electrical household and similar appliances - IT equipment - laboratory, measuring and inspection equipment - audio and video electronic devices - electrical lamps and accessories - electrical transformers - appliance switches - automatic electrical control devices - installation accessories and connection devices - sockets and socket outlets - portable and hand-held electric tools - electrical toys - electrical medical equipment - electrical traffic signs - machinery Environmental testing *Testing of electromagnetic compatibility and electromagnetic radiation* *Limited scope for testing of electrical safety of products in SIQ Testing and Certification GmbH* IT equipment Electrical medical equipment *Testing of energy consumption of electrical appliances* *Testing of equipment for use in potentially explosive atmospheres* - in electrical and non-electrical equipment - in devices and components
RvA - certificate: L418 - standard: ISO/IEC 17025 http://www.rva.nl	*Testing of gaming devices* (in SIQ Italia S.r.l. as well)
SANAS - certificate: T0608 - standard: ISO/IEC 17025 http://home.sanas.co.za/	*Testing of gaming devices in SIQ Conformity Assessment Africa (Pty) Ltd*
ATS - certificate: 01-439 - standard: ISO/IEC 17025 http://www.ats.rs/	*Testing of electromagnetic compatibility* *Testing of safety parameters* *SIQ d.o.o. Beograd*

Conformity assessment of products: certification

SA - certificate: CP-001 - standard: SIST EN ISO/IEC 17065 http://www.slo-akreditacija.si/	*Certification of electrical safety of products* - with regular inspection of the product and the manufacturing process - based on type testing - according to Slovenian regulation Product categories: - electrical household appliances - IT equipment - laboratory, measuring and inspection equipment - audio and video electronic devices - electrical lamps and accessories - electrical transformers - electrical switches - electrical control devices - installation accessories and connection devices - sockets and socket outlets - portable and hand-held electric tools - electrical toys - medical electrical equipment - electrical traffic signs - machines - medical electric devices - radio and telecommunications terminal equipment - batteries *Certification of environmental impacts* *Certification of electromagnetic compatibility and electromagnetic radiation* *Certification of equipment for use in potentially explosive atmospheres* *Design examination of active electrical energy meters*
RvA - certificate: C 480 - standard: ISO/IEC 17065 htto://www.rva.nl	*Certification of gaming devices*

Conformity assessment for services: certification

SA - *certificate: CP-001* - *standard: ISO/IEC 17065* http://www.slo-akreditacija.si/	*Services certification:* according to (EU) Regulation 910/2014, on electronic identification and trust services for electronic transactions in the internal market (EIDAS).

Conformity assessment: verification

SA - certificate: P-002 - standard: SIST EN ISO 14065 http://www.slo-akreditacija.si/	*Verification of a report on greenhouse gas emission according to the Commission Regulation No. 600/2012*

Conformity assessment of products: inspection

SA - certificate: K-002 - standard: SIST EN ISO/IEC 17020 - type of inspection body: A http://www.slo-akreditacija.si/	*Conformity assessment of measures in the field of explosion protection* inspection of explosion protection documents inspection of installation and maintenance of equipment for potentially explosive atmospheres inspection of competence of contractors for installation, maintenance and repair of equipment for potentially explosive atmospheres inspection of Ex-equipment in use assessment of the cause of an explosion and assessment of the Ex-equipment after the explosion
	Inspection of measuring instruments - Instruments for measuring insulation resistance - Instruments for measuring the loop impedance - Instruments for tire pressure measuring - Instruments for tire pressure measuring, which can carry EEC marks and signs - Exhaust gas analyzers - Instruments for measuring the exhaust gas of motor vehicles (compression-ignition) - Blood pressure measuring devices - Non-automatic weighing instruments
RvA - certificate: I 171 - standard: EN ISO/IEC 17020 - type of inspection body: A http://www.rva.nl	*Inspection of gaming devices*
ATS - certificate 06-190 - standard: ISO/IEC 17020 - type of inspection body: A http://www.ats.rs/	*Inspection of safety parameters* *SIQ d.o.o. Beograd*

Metrology

SA	Calibration of measuring instruments and measurement standards
- certificate: LK-001 - standard: SIST EN ISO/IEC 17025 http://www.slo-akreditacija.si/	Quantities: DC and low-frequency (LF) electromagnetic quantities: - voltage: direct, alternating and high, pulse amplitude - current: direct and alternating - voltage ratio - alternating/direct voltage transfer (AC/DC transfer) - AC / DC current transfer - power and energy - direct and alternating resistance, impedance - capacitance, dissipation factor - inductance High-frequency (HF) electromagnetic quantities: - voltage: CW flatness, HF/DC voltage transfer, HF voltage - HF power (including calibration factor), HF attenuation and HF impedance (reflection coefficient and directivity) Time and frequency: - time: time interval, rise / fall time, UTC time - frequency - amplitude and frequency modulation, distortion and proportion of harmonic components, properties of the modulated signal Optical quantities: - optical power and linearity in single mode optical fibres - optical reflectometers (OTDR) - opacity and light transmittance Acoustical quantities and vibration: - acoustical pressure, linearity - microphones, sound level meters, electroacoustic filters - sound exposure - vibration: acceleration, speed, deviation - transducers: sensitivity of accelerometer and charge amplifier Dimensional quantities: - length, angle, speed,... Mechanical quantities: - force, mass, gauge pressure, speed, acceleration... Temperature: - internal reference junction - temperature simulation: voltage, resistance Chemical analysis, reference materials: - gas mixtures
MIRS - decision no.: 6401-18/2008/75 http://www.mirs.si	*Holder of national measurement standard* - unit of electric current - unit of time and frequency
MIRS - decision no.: 6416-2/2012/14 - official stamp identification: 349 http://www.mirs.si	*Appointed entity for carrying out procedures of compliance assessment, i.e. first, regular and additional verifications for:* - Instruments for measuring insulation resistance, instruments for measuring the loop impedance, - Instruments for tire pressure measuring and instruments for tire pressure measuring, which can carry EEC marks and signs - Exhaust gas analyzers and instruments for measuring the exhaust gas of motor vehicles (compression-ignition) - Blood pressure measuring devices - Non-automatic weighing instruments

Management systems certification

| **SA**
- certificate: CS-001
- standard: SIST EN ISO/IEC 17021-1

http://www.slo-akreditacija.si/ | *Assessment and certification of quality management systems according to ISO 9001: 2008 / ISO 9001:2015*
- agriculture and hunting, forestry and fishing;
- mining
- manufacture of food products, beverages and tobacco
- manufacture of textiles and textile products
- manufacture of leather, and leather and related products
- manufacture of wood and wood products
- manufacture of pulp, paper and paper products
- publishing activities
- printing and related services
- manufacture of coke and refined petroleum products (19.2 only)
- manufacture of nuclear fuel
- manufacture of chemicals, chemical products and fibres
- manufacture of pharmaceuticals
- manufacture of rubber and plastic products
- manufacture of other non-metallic mineral products
- manufacture of cement, lime and plaster, and products of cement, lime and plaster
- manufacture of basic metals and fabricated metal products
- manufacture of machinery and equipment
- manufacture of electrical and optical equipment
- building and repairing of ships and boats
- manufacture of aircraft and spacecraft (33.16 only)
- manufacture of other transport equipment
- manufacture of furniture; other manufacturing activities
- recycling
- production and distribution of electricity
- manufacture of gas, distribution of gaseous fuels through mains
- water supply
- construction
- wholesale and retail trade, repair of motor vehicles and personal and household goods
- wholesale and retail trade
- repair of motor vehicles, motorcycles, and personal and household goods
- hotels and restaurants
- transport, storage and communication
- financial and insurance activities, real estate, renting machinery, equipment w/o operator, personal & household goods
- information technology and related activities
- engineering services
- architectural and technical projecting, technical testing and analysis, research and development, technical consultancy
- miscellaneous business activities except projecting, engineering and technical consultancy
- public administration and defence, compulsory social security
- education
- health and social work: hospital activities, general medical practice activities, specialised medical practice activities, social work activities with/without accommodation
- other community, social and personal service activities |

Management systems certification (cont.)

SA	Certification of environmental management systems according to ISO 14001:2004 / ISO 14001:2015
- certificate: CS-001 - standard: SIST EN ISO/IEC 17021-1 http://www.slo-akreditacija.si/	- Agriculture, hunting, forestry and fishing - Mining - Manufacture of food, beverages and tobacco - Manufacture of textiles and textile products - Manufacture of leather and related products - Wood-processing - Manufacture of pulp, paper and paperboard and articles of paper and paperboard - Publishing activities - Printing and related services - Manufacture of coke and refined petroleum products - Production of nuclear fuel - Manufacture of chemicals, chemical products and man-made fibres - Manufacture of basic pharmaceutical products and pharmaceutical preparations - Manufacture of rubber and plastic products - Manufacture of other non-metallic mineral products - Manufacture of cement, lime and plaster and articles of concrete, cement and plaster - Manufacture of basic metals and fabricated metal products - Manufacture of machinery and equipment - Manufacture of electrical and optical equipment - Building and repairing of ships and boats - Manufacture of aircraft and spacecraft - Manufacture of other transport equipment - Manufacture of furniture, other manufacturing - Recycling - Electricity - Supply of gaseous fuels - Water supply - Construction - Wholesale and retail trade, repair of motor vehicles and personal and household goods - Catering - Transport, storage and communication - Financial and insurance activities, communication with the real estate, renting of machinery and equipment without operators, rental and borrowing and household goods - Computer and related activities - Architectural and engineering activities, technical testing and analysis, research and development, technical advice - Other business activities, other than the design, engineering and technical consultancy services - Public administration and defence, compulsory social security - Education - Health and Social Care: Hospital activities, general medical practice activities, Specialist medical practice activities and social work with or without accommodation, Veterinary activities - Other community, social and personal service activities

Management systems certification (cont.)

SA - certificate: CS-001 - standard: SIST EN ISO/IEC 17021-1 http://www.slo-akreditacija.si/	*Certification of occupational health and safety management systems according to the standard BS OHSAS 18001:2007* - Agriculture, hunting, forestry and fishing - Mining - Manufacture of food, beverages and tobacco - Manufacture of textiles and textile products - Manufacture of leather and related products - Wood-processing - Manufacture of pulp, paper and paperboard and articles of paper and paperboard - Publishing activities - Printing and related services - Manufacture of chemicals, chemical products and man-made fibres - Manufacture of basic pharmaceutical products and pharmaceutical preparations - Manufacture of rubber and plastic products - Manufacture of other non-metallic mineral products - Manufacture of cement, lime and plaster and articles of concrete, cement and plaster - Manufacture of basic metals and fabricated metal products - Manufacture of machinery and equipment - Manufacture of electrical and optical equipment - Building and repairing of ships and boats - Manufacture of other transport equipment - Manufacture of furniture, other manufacturing - Recycling - Electricity - Supply of gaseous fuels - Water supply - Construction - Wholesale and retail trade, repair of motor vehicles and personal and household goods - Catering - Transport, storage and communication - Financial and insurance activities, communication with the real estate, renting of machinery and equipment without operators, rental and borrowing and household goods - Computer and related activities - Architectural and engineering activities, technical testing and analysis, research and development, technical advice - Other business activities, other than the design, engineering and technical consultancy services - Public administration and defence, compulsory social security - Education - Health and Social Care: Hospital activities, general medical practice activities, Specialist medical practice activities and social work with or without accommodation - Other community, social and personal service activities

Management systems certification (cont.)

SA - certificate: CS-001 - standard: SIST EN ISO/IEC 17021-1 http://www.slo-akreditacija.si/	*Certification of food safety management systems according to ISO22000: 2005 standard* • Processing of perishable animal products • Processing of perishable plant products • Processing of perishable animal and plant products(mixed products) • Processing of ambient stable products • Catering • Provision of Transport and Storage Services for Perishable Food and Feed • Provision of Transport and Storage Services for Ambient Stable Food and Feed
	Assessment and certification of quality management systems – medical devices according to ISO 13485:2003 standard - Non-active medical devices - Non-active non-implantable medical devices, general - Non-active devices for anaesthesia, emergency and intensive care - Non-active devices for injection, infusion, transfusion - Non-active devices for orthopaedics and rehabilitation - Non-active devices for measuring - Non-active ophthalmologic devices - Non- active instruments - Aids in conceiving - Non-active devices for disinfecting, cleaning, rinsing - Non-active implants - Non-active orthopaedics implants - Devices for wound care - Bandages and wound dressings - Suture material and clamps - Other medical devices for wound care - Non-active dental devices and equipment - non-active dental devices, equipment and instruments - Active non-implantable medical devices - Active medical devices, general - devices for extracorporeal circulation, infusion and hematoferesis – incubators for children included - respiratory devices - devices for stimulation and inhibition - Active surgical devices - Active ophthalmic devices - Active dental devices - Active devices for disinfection and sterilization - Software - Imaging and therapeutic devices - imaging devices that use ionizing radiation - imaging devices that use non-ionizing radiation - Monitoring devices - Devices for monitoring neutral physiological parameters - Devices for monitoring of vital physiological parameters - Medical devices in a sterile condition - Sterilization by ethylene oxide - Steam sterilization - Radiological sterilization - Manufacture in aseptic environment - In vitro diagnostic medical devices - In vitro diagnostic medical devices - devices for performance evaluation – all medical devices from Directive IVD 98/79/ES, except for medical devices from lists A and B and medical devices for testing itself - Medical devices subject to the Directive 2006/42/EC on machinery - For all relevant devices included above

Management systems certification (cont.)

SA - certificate: CS-001 - standard: SIST EN ISO/IEC 17021-1 http://www.slo-akreditacija.si/	*Certification of energy management systems according to ISO 50001:2011 standard* - Industry - light to medium - Heavy industry - Building - Building complexes - Transport - Mining - Agriculture - Energy supply
	Certification of quality management systems according to regulations on the status of waste: - Regulation (EU) No. 333/2011, type of waste: scrap metal, iron and scrap aluminium - Regulation (EU) No. 715/2013, type of waste: scrap copper

Management systems certification (cont.)

| **SA**
- certificate: SI-V-0001
- regulation: EC no. 1221/2009
http://www.slo-akreditacija.si/ | *Verification and validation according to the requirements of the EMAS Scheme (Eco-Management and Auditing Scheme)*
- operation of dairies and cheese making
- manufacture of ice cream
- manufacture of distilled potable alcoholic beverages
- manufacture of wines
- other printing
- manufacture of dyes and pigments
- manufacture of paints, varnishes, printing ink and mastics
- manufacture of soap and detergents, cleaning and polishing preparations
- manufacture of basic pharmaceutical products
- manufacture of pharmaceutical preparations
- manufacture of plastic packing goods
- manufacture of electronic components
- manufacture of electric motors, generators and transformers
- installation of machinery and apparatus for industrial use
- manufacture of other wire and cable
- manufacture of sockets, switches, and other wiring devices
- manufacture of lighting devices and equipment
- manufacture of electrical household appliances
- installation of machinery and apparatus for industrial use
- wholesale of pharmaceutical goods and medical goods
- water collection, treatment and supply
- collection of hazardous waste
- collection of non-hazardous waste
- treatment and disposal of hazardous waste
- treatment and disposal of non-hazardous waste
- dismantling of wrecks
- recovery of sorted materialswholesale of office machinery and equipment
- hotels and other provision of similar accommodation
- camping sites and other provision of short-stay accommodation
- other supporting water transport activities
- transhipment
- line telecommunication activities
- wireless telecommunication activities
- maintenance of facilities
- general industrial cleaning
- road cleaning and other cleaning
- planting and maintenance of green areas
- public administration
- primary education
- elementary education
- general secondary education
- technical and vocational secondary education
- Tertiary education
- Other education n.e.c
- funeral services
- |

SIQ

Multilateral Agreements: testing and certification

IECEE/CB Scheme Scheme of the IECEE for Mutual Recognition of Test Certificates http://www.iecee.org	*National Certification Body (NCB)* *Recognized Factory Surveillance Body (FSB)* *Recognized CB Testing Laboratory (CBTL)* for testing of electric safety and electromagnetic compatibility according to IEC standards SIQ may issue CB certificates of conformity for the following product categories: - information technology and office equipment (OFF) - household and similar equipment HOUS) - electrical equipment for medical use (MED) - safety transformers (SAFE) - luminaires (LITE) - laboratory equipment (MEAS) - portable tools (TOOL) - switches for appliances and automatic controls (CONT) - installation accessories and connection devices (INST) - electronic, entertainment (TRON) - electric vehicles (ELVH) - industrial automatization (INDA) - energy efficiency (E3) - low voltage switching equipment (POW) - electromagnetic compatibility (EMC) - batteries (BATT) - photovolatics (PV)
	SIQ GmbH Recognized as CB Testing Laboratory *(CBTL) for testing of electric safety:* - information technology and office equipment (OFF) - electrical equipment for medical use (MED)
IECEE/CB-FCS Scheme Scheme of the IECEE for Mutual Recognition of Test Certificates of Conformity http://www.iecee.org	*National Certification Body (NCB)* *Recognized CB Testing Laboratory (CBTL)* Product categories: - information technology and office equipment (OFF) - household and similar equipment HOUS) - electrical equipment for medical use (MED) - safety transformers (SAFE) - luminaires (LITE) - laboratory equipment (MEAS) - portable tools (TOOL) - switches for appliances and automatic controls (CONT) - installation accessories and connection devices (INST) - electronic, entertainment (TRON) - low voltage switching equipment (POW) - electromagnetic compatibility (EMC) - batteries (BATT) - photovolatics (PV)
IECEx Scheme IEC Scheme for Certification to Standards for Electrical equipment foe Explosive Atmospheres http://www.iecex.com	*IECEx Assessment and Testing Laboratory (ExTL)* *Ex Certification Body (ExCB)* for issuing IECEx certificates of conformity for the following types of protection: - flameproof enclosure Ex d - increased safety Ex e - intrinsic safety Ex i - encapsulation Ex m - non-sparking apparatus Ex n - dust ignition protection Ex t and certificate for Service Facility

SIQ

Multilateral Agreements: testing and certification (cont.)

CCA Mutual recognition Agreement within CENELEC http://www.eepca.org	*National Certification Body (NCB)* *Recognized Testing Laboratory (TL)* SIQ may issue NTR certificates for the following product categories: - information technology and office equipment (OFF) - household and similar equipment HOUS) - electrical equipment for medical use (MED) - safety transformers (SAFE) - luminaires (LITE) - laboratory equipment (MEAS) - portable tools (TOOL) - switches for appliances and automatic controls (CONT) - installation accessories and connection devices (INST) - electronic, entertainment (TRON)
CCA-EMC Mutual recognition arrangement on the use of a common European mark of conformity to standards concerning electromagnetic compatibility	*National Certification Body (NCB)* *Recognized Testing Laboratory (TL)*
ENEC Mutual recognition arrangement on the use of a common European mark of conformity to standards http://www.enec.com	*National Certification Body (NCB)* *Recognized Testing Laboratory (TL)* SIQ may grant licences for the ENEC mark for the following product categories: - luminaires (LITE) - information technology and office equipment (OFF) - household and similar equipment HOUS) - switches for appliances and automatic controls (CONT) - safety transformers (SAFE) - portable tools (TOOL) - electronic, entertainment (TRON
FCC (Federal Communication Commission) Notification: SI0001 http://www.fcc.gov	*Notification for conformity assessment body for testing of emission from electronic, electrical, industrial and medical equipment*

Multilateral Agreements: management systems assessment and certification

IQNet http://www.iqnet-certification.com	*Co-operation and mutual recognition* and promotion of issued certificates for management systems

Authorizations: testing and other professional tasks

Ministry of Finance - first appointment: 8820/02 - last valid appointment: 46111-1/2014/5	For issuing test reports for gaming devices according to Article 3b of Gaming Act (Official Gazette of RS, No. 134/03), Article 3 of Rules on institutions authorized for issuing test reports for gaming devices (Official Gazette of RS, No. 9/07) and Article 207 of Administrative Procedure Act (Official Gazette of RS, No. 24/06, 105/06-ZUS-1, 126/07).
Ministry of the Economy - decision: 3261-1/2004-7	Appointed technical service carrying out as a technical body and on behalf of the Ministry of transport, DRRS, testing, inspection and verification of systems, components and separate technical units of vehicles according to the Rules on EC-homologation of motor vehicles (Official Gazette of RS, Nos. 84/02, 80/04 and 75/05), Rules on EC-homologation of three-wheel motor vehicles (Official Gazette of RS, Nos. 125/03, 80/04 and 75/05) and Rules on homologation of agricultural and forestry tractors (Official Gazette of RS, Nos. 125/03, 80/04, 103/04 and 75/05).
Public Agency of the Republic of Slovenia for Railway Transport	Competent national body (DeBo) for the implementation of the verification procedure according to the requirements of Article 17(3) of Directive 2008/57/EC in connection with national technical regulations covering the following structural fields: - energy - control-command and signalling - rolling stock

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