**INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: Re-assessment and Scope Extension Report for the continued acceptance of** **DEKRA Certification B.V., an Accepted Ex Certification Body (ExCB) and an Accepted Ex Testing Laboratory (ExTL) in the Equipment Scheme 02, and an Accepted ExCB in the Service Facilities Scheme, 03, an Accepted ExCB in the Mark Licensing Scheme, 04 and an Accepted ExCB in the Personnel Scheme, 05 within the IECEx System, to include IEC 60079-33 in their scope.**

**Circulation to: Members of the IECEx Management Committee, ExMC**

**INTRODUCTION**

In accordance with the 5 year re-assessment plan for the surveillance and monitoring of bodies within the IECEx System, the following document contains the IECEx Re-assessment and Scope Extension Report for the continued acceptance of DEKRA Certification B.V., an Accepted Ex Certification Body (ExCB) and an Accepted Ex Testing Laboratory (ExTL) in the Equipment Scheme 02, and an Accepted ExCB in the Service Facilities Scheme, 03, an Accepted ExCB in the Mark Licensing Scheme, 04 and an Accepted ExCB in the Personnel Scheme, 05 within the IECEx System.

During the re-assessment the IECEx Assessment Team took the opportunity to also assess DEKRA Certification B.V.’s equipment and competence to undertake testing and certification in the IECEx 02 Certified Equipment Scheme, for

the following extension of scope –

|  |  |
| --- | --- |
| Number | Title |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” |

***Members are requested to vote on the acceptance of the above scope extension***

***This document is hereby submitted for ExMC approval via correspondence using the IECEx on-line voting system.  ExMC Members are requested to submit their vote via the IECEx On-line*** [***Ballot System***](https://www.iecex.com/ballot) ***by the closing date 2022 04 22***

***Chris Agius***

**IECEx Secretariat**

|  |  |
| --- | --- |
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IEC System for certification to standards relating to equipment for use in Explosive Atmospheres (IECEx System)

IECEx Assessment Report Form, F-003

IECEx assessment report form for use by IECEx assessment teams to report assessments conducted according to the relevant IECEx assessment procedures of:

Operational Document IECEx OD 003-2 for the Certified Equipment Scheme

Operational Document IECEx OD 316-5 for the Certified Service Facility Scheme

Operational Document IECEx OD 422 for the IECEx Conformity Mark Licensing Scheme

Operational Document IECEx OD 501 for the Personnel Competence Scheme

IECEx ExCB/ExTL assessment report for DEKRA Certification B.V.

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

|  |  |
| --- | --- |
| ExCB for IECEx Certified Equipment Scheme |  |
| ExTL for IECEx Certified Equipment Scheme |  |
| ATF for IECEx Certified Equipment Scheme |  |
| ExCB for IECEx Certified Service Facilities Scheme |  |
| ExCB for IECEx Conformity Mark Licensing System |  |
| ExCB for IECEx Certification of Personnel Competency Scheme |  |

## Type of assessment:

|  |  |
| --- | --- |
| Pre-assessment for candidate body |  |
| Initial assessment for candidate body |  |
| Surveillance |  |
| Re-assessment |  |
| Scope extension |  |

## Details of body

### Country

The Netherlands

### Name of body

DEKRA Certification B.V.

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Richard Schuller | Certification Manager | Richard.Schuller@dekra.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name | Role |
| Katy Holdredge | IECEx Lead Assessor |
| Marino Kelava | IECEx Assessor |

### Place(s) of assessment

Remote Assessment due to COVID-19 pandemic measures:

|  |  |
| --- | --- |
| Meander 1051, 6825 MJ Arnhem, The Netherlands | Meander 300, 6825 MD Arnhem, The Netherlands (Ex lab on same site) |

### Assessment date(s)

Due to the COVID-19 pandemic related restrictions the assessment was carried out remotely in four-hour sessions from 28 June to 9 July 2021 in accordance with IECEx OD-060.

## Application information and background information on the assessment

The last reassessment at DEKRA was in December 2015. This assessment was originally planned in 2020 but was postponed because of the pandemic. The remote assessment was performed according to IECEx OD 060 and included the confirmation of application of the latest standards.

DEKRA also has staff based out of the U.S., Korea, and Japan. All staff, whether located in The Netherlands as shown in OD 001 or in the alternative locations, are operating under direction from the Netherlands certification office. The reassessment included interviews with staff outside of The Netherlands and review of certification records involving these staff.

## Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB is shown in Annex A. The scope extension allows the following:

|  |  |  |
| --- | --- | --- |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | Scope increase |

### ExTL scope

The DEKRA Certification B.V. ExCB is associated with the following ExTLs: DEKRA Certification B.V. and DEKRA Testing and Certification GmbH. The ExTL scope is the same as for the ExCB.

### ATF Scope

DEKRA Certification B.V. does not have any associated ATFs.

### ExCB scope for Service Facilities Scheme

Equipment repair, including equipment repair standard and associated protection techniques.

|  |  |  |
| --- | --- | --- |
| IEC 60079-19  Edition 4.0 | Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation | Comments |
| **With the following types of protection** | **ID** |  |
| Flameproof Enclosure "d" | d |  |
| Increased Safety "e" | e |  |
| Type of Protection "n" | n |  |
| Intrinsic Safety "i" | i |  |
| Oil Filled "o" | o |  |
| Pressurisation "p" | p |  |
| Dusts to IEC 60079-31 "t" | t |  |
| Dusts to IEC 61241-1 "tD" | tD |  |
| Dusts to IEC 61241-1-1 "DIP" | DIP |  |
| Other (e.g., non-electrical) | Ot |  |

## ExCB scope for Conformity Mark Licensing Scheme

Full scope as shown for ExCB above.

## ExCB scope for IECEx Personnel Competence Scheme

The scope for the IECEx Personnel Competence Scheme is shown below.

| Unit | | Comments |
| --- | --- | --- |
| Unit Ex 000 – Basic knowledge and awareness |  |  |
| Unit Ex 001 – Apply basic principles of protection in explosive atmospheres |  |  |
| Unit Ex 002 – Perform classification of hazardous areas |  |  |
| Unit Ex 003 – Install explosion-protected equipment and wiring systems |  |  |
| Unit Ex 004 – Maintain equipment in explosive atmospheres |  |  |
| Unit Ex 005 – Overhaul and repair of explosion-protected equipment |  |  |
| Unit Ex 006 – Test electrical installations in or associated with explosive atmospheres |  |  |
| Unit Ex 007 – Perform visual & close inspection of electrical installations in or associated with explosive atmospheres |  |  |
| Unit Ex 008 – Perform detailed inspection of electrical installations in or associated with explosive atmospheres |  |  |
| Unit Ex 009 – Design electrical installations in or associated with explosive atmospheres |  |  |
| Unit Ex 010 – Perform audit inspection of electrical installations in or associated with explosive atmospheres |  |  |

# Common information

## Legal entity of body

DEKRA Certification BV is a limited liability company organised under the laws of the Netherlands.

## Financial support

DEKRA Certification BV derives its funding from the charges for its services

## History

N.V. KEMA was founded in 1927 as the Dutch electricity industry’s test house. KEMA Quality B.V. was, until 1 November 2009, a business unit of the N.V. KEMA, with testing and certification of household, commercial and industrial products, assessment and certification of Quality Management Systems and Personnel Certification as its core business. From 1st November 2009 KEMA Quality B.V. became a member of the DEKRA Group and the name changed to DEKRA Certification BV with unchanged scope and activities. Since 1991 KEMA Quality B.V. as an ATEX Notified Body has assessed and certified Ex-products and Ex-production sites according to the European Directives. In March 2005 KEMA was approved as an IECEx 02 ExCB/ExTL, followed by IECEx 03 ExCB Certified Service Facility Scheme approval in May 2007, IECEx 04 Conformity Mark Licenses in February 2011, IECEx 05 Certification of Personnel Competencies (CoPC) approval March 2012

## Documentation

### Quality manual

The on-line (accessible for all staff) DEKRA Certification B.V. Quality Manual covers all general requirements of ISO/IEC 17065 and ISO/IEC 17025.

### Procedures

The DEKRA Certification B.V. on-line Quality Management System (QMS, using AM-System) contains all procedures related to the activities of DEKRA Certification B.V. This system is predominantly in English to assist with international use of the system. For IECEx 02, the specific procedures are 1765, 1766 and 1767, covering product certification and site audits respectively. In addition, there are documents Manual 00, Manual 01 and Manual 02, that have been developed. This describes in general terms the DEKRA Certification B.V. way of working. It is intended as a guideline for all activities within Business Team Explosion and process Safety (Team EPS)). All working documents like standard checklists, laboratory measurement forms, etc. are kept on 2Connect and AM-System.

### Work instructions

Included in 2.4.2.

### Records (including test records where relevant)

For each project a project file is made which includes all correspondence, assessment and test results and certificates. After completion of the work, the complete file is digitally archived. Hard copy records are securely disposed of using a contractor. All records are stored in a digital archive with a retention period of unlimited, 1136:3, Record / Document Filling.

The procedure addresses the requirements of IECEx OD-207.

### Document change control

All documents that are part of QMS are controlled according to DEKRA Certification B.V.’s procedures. The documents on 2Connect are controlled as described in Annex C of the General Manual 00 Team EPS, using for each document an appointed document owner and document reviewer. Their procedure, Record / Document Filling, 1136:3, prescribes minimum retention times for documents, which is indefinite for all documents, which are stored in a digital archive. However, in practice obsolete documents are retained indefinitely in 2Connect in a hidden directory not accessible for the users. During the assessment DEKRA was in the process of transitioning from the 2Connect to AMSystem.

## Confidentiality

The DEKRA Certification B.V. management system ensures that all staff and any contractors (e.g., MTSA staff) sign a confidentiality agreement which also addresses “conflict of interest” as described in Clause 5.4 of the Quality Manual 2101:1. Examples were sited of agreements signed by employees, contractor employees and a member of the impartiality committee.

## Communication with public and customers (Hard copy and Electronic)

Details regarding Ex certification are available on the company website:   
<https://www.dekra-product-safety.com/en> and

<https://www.dekra-product-safety.com/en/sectors/hazardous-locations>.

## Recognitions and agreements

DEKRA Certification BV agreements and recognitions include:   
Notified Body under ATEX   
IECEE CB Scheme   
Accredited by INMETRO/CGCRE  
Accredited by Japanese Ministry   
OSHA Accredited NRTL  
Agreements with:  
FM  
USCG  
TIIS  
QPS  
KCS  
etc..

## Internal audit

An internal audit for EPS took place on 11 May 2021, which covered ISO/IEC 17065. There was a separate internal audit for the test site to the 2017 edition of ISO/IEC 17025 that occurred on 24 June, but the report had not been issued at the time of the reassessment. The last internal audits for IECEx 03-5 and IECEx 05 were done 2021-10 through 2021-12 and were in compliance with the requirements of the IECEx.

## Management review

DEKRA Certification B.V. has a procedure for performing management reviews, MA:1137:7 that requires they be held annually. The latest management preparation review meeting was held in May 2021, but the final meeting had not occurred for the 2020 review to date. The delay was due to a reorganization and changes in responsibilities. The quality organization is assisting with the completion of the management review during the transition. Records of the management review held on April 29, 2020 for 2019 were reviewed and covered the required aspects.

## Contracting, subcontracting and witness testing

Most of the IECEx 02 work is done within DEKRA Certification B.V. DEKRA Certification B.V. uses MTSA Technopower B.V in Arnhem, NL, for Ex d measurements and preparation of test samples, DEKRA Automotive GmbH for UV-testing and has DEKRA Testing and Certification GmbH as an associated ExTL as well.

### Contracting

Measurement of flame paths dimensions per IEC 60079-1 is done at the MTSA, a local company located in vicinity of DEKRA Arnhem. A contract meeting the requirements of the IECEx is in place. MTSA operates those measurements under supervision of DEKRA Arnhem. MTSA calibrated equipment is controlled by DEKRA Arnhem and personnel providing measurements is monitored for competency and regular trainings by DEKRA Arnhem in the same manner as other staff of DEKRA ExTL. MTSA is included in internal audits by DEKRA Arnhem in the same manner as other departments of DEKRA Arnhem ExTL.

### Subcontracting

DEKRA Certification B.V. sometimes subcontracts tests to their associated ExTL, DEKRA EXAM, for those tests where they have the equipment already available in-house, reference pressure and spark ignition, or to DEKRA Automotive GmbH for those tests not indicated with an asterisk in the TCD.

The following tests are, or may be, subcontracted by the body:

|  |  |  |
| --- | --- | --- |
| Standard | Clause | Test |
| IEC 60079-0 | 26.10 | Resistance to UV light |
| IEC 60079-1 | 15.2.2 | Determination of reference pressure  DEKRA Certification B.V. sometimes subcontracts tests to their associated ExTL, DEKRA EXAM, for those tests where they have the equipment already available in-house. |
| IEC 60079-11 | 10.1 | Spark ignition test  DEKRA Certification B.V. sometimes subcontracts tests to their associated ExTL, DEKRA EXAM, for those tests where they have the equipment already available in-house. |

More details, including bodies to whom tests will be subcontracted, details of accreditation of those bodies and details of how the subcontracted bodies are checked, are included in the site assessment report.

### Off-site and Witness testing

To cover off-site and witness testing, IECEx OD 024 is referenced and incorporated in procedure 1767. This was checked during the re-assessment and found DEKRA regularly applies requirements from OD-024 when off-site and witness testing is used. In the past OD-024 agreements were kept with the files within DEKRA, and recently they started uploading relevant information to IECEx online register, which is in compliance with the requirements of the IECEx.

## Training and competence

Each staff member has a record of competency, which is updated as required.

The official competency records for personnel, including the various standards and the IECEx 02, IECEx 03-5 and IECEx 04 schemes is contained within DEKRA’s Shell system. Their IECEx 05 quality manual includes competent staff for that scheme instead of the matrix or Shell system. There is also a record for each staff member showing the training received and their current competency status for each standard, which is reviewed annually. For the tests witnessed during the visit it was seen that the personnel involved had the required competency level. In addition, for each project there is a quality of work document filled out, which is used to monitor staff as required by ISO IEC 17065.

Details of staff competencies are included in the site assessment report.

## Complaints and appeals (including appeals to IECEx)

DEKRA Certification B.V. has a Complaint & Appeal procedure, 1135:4. Any disputes and complaints are dealt with according to DEKRA Certification B.V.’s General Terms and Conditions under Article 18. In the IECEx 02, IECEx 03, IECEx 04 and IECEx 05 application forms that DEKRA Certification B.V. use for all IECEx projects; the client is made aware of the possibility to make an appeal to the IECEx ExMC. No Ex complaints have been recorded.

## Impartiality

Clause 9.7 of DEKRA’s Management of impartiality procedure, 1689:7, contains the requirements for signing confidentiality requirements. Impartiality committee last met in March 2021.

## Active involvement in development of Decision Sheets

This is under the responsibility of the Technical Experts, Leo van Schie and Richard Schuler, both aware of the rules and procedures. Evidence of consistent commenting on ExTAG DS was viewed, e.g., ExTAG/640A/CC, ExTAG/644/CC, ExTAG/645/CC.

## Supporting documentation

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These are included in a site assessment report or provided separately and include:

* Details of issues raised and how these have been resolved;
* Checklist for ISO/IEC 17065, IECEx OD 107;
* Checklist for ISO/IEC 17025, IECEx OD 018;
* Checklist for ISO/IEC 17024, IECEx OD 507;
* Completed Technical Capability Document (TCD); and
* Photos of the facilities/tests witnessed are included in the above TCD.

## Recommendations

Based on the assessment performed on 28 June to 9 July 2021, DEKRA Certification B.V. is recommended for continued acceptance in the IECEx scheme as:

* An ExCB in the IECEx Certified Equipment Scheme;
* An ExTL in the IECEx Certified Equipment Scheme;
* An ExCB in the IECEx Certified Service Facilities Scheme;
* An ExCB in the IECEx Conformity Mark Licensing Scheme; and
* An ExCB in the IECEx Certification of Personnel Competency Scheme.

This is according to the scope of the standards listed in this document including the extension of scope, subject to resolution of the issues found during the assessment.

|  |  |
| --- | --- |
| Katy Holdredge | Marino Kelava |
| IECEx Lead Assessor | IECEx Assessor |

Date: 2022-01-14

# ExCB for IECEx Certified Equipment Scheme

## Assessment references

### General references

1. IECEx 02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
2. IECEx OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
3. ISO/IEC 80079-34 Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
4. IECEx OD 009 Issuing of CoCs, ExTRs and QARs
5. IECEx OD 025 Guidelines on the Management of Assessment and Surveillance programs for the assessment of Manufacturer’s Quality Systems in accordance with the IECEx Scheme
6. IECEx OD 026 IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System
7. ISO/IEC 17065 General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services
8. IECEx OD 107 Harmonised check list for certification bodies ISO/IEC 17065
9. IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities
10. IECEx Technical Capability Document (TCD)
11. ExTAG decision sheets (DSs)

NOTE The latest editions of the above documents were applied, unless otherwise specified

### Additional references applied for this assessment

# IECEx OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" – Process Ex s, 2800:1 refers to OD 233

# IECEx OD 280 Guide to Certification of Non-electrical Equipment and Protective System

## Candidate ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Leo van Schie | Technical Expert/Certification Manager/Project Manager |
| Richard Schuller | Technical Expert/Certification Manager/Project Manager/Lead auditor |
| Theresa Fleskes | Quality Professional |
| Vincenzo Lanzillotti | Quality Professional |

## Associated ExTL(s)

The ExTL is integral with the ExCB, additionally, DEKRA Testing and Certification GmbH is an Associated ExTL.

## Associated certification functions

DEKRA Certification B.V. is also a Notified body under the ATEX Directive (Notified body number 0344) and an OSHA Nationally Recognized Testing Laboratory (NRTL) Recognized Testing Site for the U.S.

## National marks and certificates

DEKRA Certification BV issues ATEX certifications for the European market. There are no national marks for Ex.

## Standards accepted

The scope for the ExCB is shown in Annex A

## National differences to IEC standards

National differences to IEC standards are those for the EU Group differences listed in the latest version of the IECEx System Bulletin.

## Organisation

### Names, titles and experience of the senior executives

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Bram Holtus | Managing Director | 2 years in this position, > 30 years in the company |
| Teun Arends | Business Area Director Medical & Explosion Safety | 6 months for EPS, 4 years for Medical |
| Arthur Stam | Operational manager EPS | 2 months at EPS |

### Name, title and experience of the quality management representative

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Allard van Goor | QA/RA Manager | 6 years |

### Name and title of signatories for certification

|  |  |
| --- | --- |
| Name | Title |
| Richard Schuller | Certification Manager |
| Theo Pijpker | Certification Manager |
| Leo van Schie | Certification Manager |
| Rudolf Pomme | Certification Manager |
| Erwin ter Haar | Certification Manager |

### Other employees in ExCB activity

Included in site assessment report.

## Organizational structure

See Annexes B and C.

## Indemnity insurance

There is a public and product liability insurance policy for EUR 10M current to 1 January 2023 as well as local insurance for EUR 1M. Evidence was provided that this policy also covers professional indemnity. Local insurance 1,000,000, valid until 2023-01-01 & group certificate, 10M through 2023-01-02.

## Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet

the requirements of the IECEx Scheme for the issuing of ExTRs, IECEx QARs and IECEx CoCs.

## Committees (such as governing or advisory boards)

DEKRA Certification BV has a committee related to all certification activity (IECEx 02, 03, 04 and 05) identified as the impartiality committee. This comprises experts from a range of interests relevant to product, service facility and personnel certifications. The committee meets twice a year and has the power to form an appeals committee if required. The last meeting was held in March 2021 and minutes of the meeting were reviewed.

## Certification operations

### National approval/certification methods

See 3.4 and 3.5.

### Certification policy

DEKRA Certification B.V.’s certification policy related to IECEx is contained within the General Manual Team EPS, Manual 00, Product Evaluation ATEX, IECEx and UKEX, Manual 02, and Team EPS Audit Manual ATEX UKEX IECEx 02 IECEx 04, Manual 01.

### Application for certification

The application for certification is detailed in the manuals described in 3.13.2.

### Certification decision

The certification decision is taken by a Certification Manager (CM) appointed by DEKRA Certification BV Quality Managing Director. The decision process in defined in IECEx 02 Product Assessment & Certification, 1767. Only those managers who are authorized to turn a draft DEKRA Certification BV certificate into a current one have access to the appropriate IECEx password. The personnel who make the certification decision are different to those that carry out the audits, inspections, verifications and/or testing. This meets the requirements for ISO/IEC 17065 and IECEx.

### Suspension and cancellation of certificates

The process for suspending and cancelling product certificates is detailed in Product Evaluation ATEX, IECEx and UKEX, Manual 02. There was one issue related to the manual, which was subsequently revised and found to meet the requirements of the IECEx.

## Certificates issued

Number of certificates issued under for the preceding two years for each type of protection. For new applications these should be for national or regional schemes and for currently accepted bodies IECEx certificates should be shown (certificates for other schemes may also be shown):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Standard numbers | Type of protection or other identifying information | Number of issued certificates (for last 2 years) | | Total |
| 2019 | 2020 |
| 60079-1  60079-2  60079-5  60079-6  60079-7  60079-11  60079-13  60079-15  60079-18  60079-25  60079-26  60079-28  60079-30-1  60079-31  60079-46  80079-36  80079-37 | d  p  q  o  e  i  p  n  m  i  Ga  op-is  Ex 60079-30-1  t  Ex 60079-46,  h  b, c, k | 77  10  3  0  69  91  0  78  15  0  22  4  5  66  5  6  5 | 82  13  0  0  121  138  0  61  12  1  18  3  4  58  7  10  9 | 159  23  3  0  190  229  0  139  27  1  40  7  9  124  12  16  14 |
|  | all | 456 | 537 | 993 |

NOTE Above include certificates to IEC 60079-0 unless otherwise shown

## National accreditation

The national accreditation certification for ISO/IEC 17065 is shown in Annex D. It has been issued by RVA, accreditation C 001, valid to 01-05-2022.

## Assessment of manufacturers and issue of QARs

DEKRA Certification B.V. manages quality audits as detailed in General Manual Team EPS, Manual 00, Team EPS Audit Manual ATEX UKEX IECEx 02 IECEx 04, Manual 01 and work instruction Extraordinary Circumstances DEKRA, which refers to IECEx 060. DEKRA uses audit template Form 180, Version 17, and NCR form 142, Version 5, which are based on the IECEx templates. There was one issue related to the update of audit dates on the IECEx OCS for surveillance, which was successfully resolved during the reassessment.

## Comments (including issues found during assessment)

DEKRA Certification B.V. has a process related to their scope increase for type of protection ‘s’, Process, Ex s, 2800:1. There are four senior staff qualified for this protection method and no special requirements for audit staff. Interviews with staff demonstrated competence for the type of protection with a broad and deep level of knowledge in certification of Ex products.

The following issues found during the site assessment:

* Missing references to IECEx OD 209, Requirements and Guidelines for the Suspension, Cancellation and Reinstatement of Certificates of Conformity and IECEx 250, Guidance on the Management of IECEx Quality Assessment Reports (QARs) in the quality documentation;
* Updating of IECEx OCS was not in accordance with IECEx OD 011-2 for surveillance; and
* Missing evidence of compliance with IECEx ExTAG 2014/001.

Detailed information on this is shown in the site assessment report. All issues have been resolved to the satisfaction of the assessment team.

# ExTL for IECEx Certified Equipment Scheme

## Assessment references

### General references

1. IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
2. IECEx OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
3. IECEx OD009 Issuing of CoCs, ExTRs and QARs
4. ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories
5. IECEx OD 018 Harmonised check list for testing and calibration laboratories ISO/IEC 17025
6. IECEx TCD 60079, ISO 80079 Series and ISO 16852 Technical Capability Document
7. ExTAG decision sheets (DSs)
8. IECEx OD 202 IECEx Certified Equipment Scheme – IECEx Proficiency Testing Program

NOTE The latest editions of the above documents were applied, unless otherwise specified.

### Additional references applied for this assessment

# IECEx OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s"

# IECEx OD 280 Guide to Certification of Non-electrical Equipment and Protective System

NOTE To be added by assessment team. For example, ODs for non-electrical or Ex s where applicable

## Candidate ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Leo van Schie | Technical Expert/Certification Manager/Project Manager |
| Gert Jan Kluin | Lab Technician |
| Klement Haker | Engineer / Lab Technician |
| Rudolf Pomme | Certification Manager |
| Mario Hađak | Engineer / Lab Technician |
| Dennis Harmsen MTSA | Lab Technician |

## Associated ExCB(s)

DEKRA Certification B.V.

## Organisation

DEKRA Certification B.V.

### Names, titles and experience of the senior executives

See 3.8.1.

### Name, title and experience of the quality management representative

See 3.8.2.

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Gert Jan Kluin | Lab Technician | 8 |

## Organizational structure

See Annexes B and C.

## Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet the requirements of the IECEx Scheme for product testing.

## Test reports issued

See 3.14 Certificates for the approximate number of ExTRs issued.

## National accreditation

DEKRA Certification B.V. has ISO/IEC 17025 Accreditation but not for the Ex-activities. They are required to have annual surveillance.

## Calibration

The system for calibration of test equipment is addressed in Testing Laboratory procedures which were reviewed during the assessment and found to comply with ISO/IEC 17025 and IECEx requirements.

All equipment requiring calibration is calibrated by external accredited calibration service providers. The calibration schedule for equipment is maintained by a member of staff on a computer database. Calibration is then organized for all equipment that is about to fall due for calibration.

The status of confirmation of metrological control of a given equipment is recorded in the equipment digital card and confirmed by a green sticker on the equipment. Green sticker means that the equipment is calibrated, checked, good and approved for use.

All equipment used for witnessed testing was found to be in calibration.

## Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

| Standard and edition | Clause number | Test | Comments |
| --- | --- | --- | --- |
| IEC 60079, Ed. 7.0 | 25 | Compliance of prototype or sample with documents (‘d’) | Verification of dimensions performed competently by MTSA staff. |
| IEC 60079, Ed. 7.0 | 26.13 | Surface Resistance | Testing performed competently. |
| IEC 60079, Ed. 7.0 | 26.4.2 | Resistance to impact | Testing performed competently. |
| IEC 60079-1, Ed. 7.0 | 15.2.2 | Determination of explosion pressure (reference pressure) | Testing performed competently. |
| IEC 60079-1, Ed. 7.0 | 15.2.3 | Overpressure | Testing performed competently. |
| IEC 60079-1, Ed. 7.0 | C.3.1 | Sealing | Testing performed competently. |
| IEC 60079-7, Ed. 5.1 | 6.10 | Terminal insulating material | Testing performed competently. |
| IEC 60079-11, Ed. 6.0 | Annex E | Transient energy | Testing performed competently. |
| IEC 60079-15, Ed. 5.0 | 11.3 | Restricted breathing | Testing performed competently. New manometer was procured and calibrated. |
| IEC 60079-28, Ed. 2.0 | 5, 6 | Measurement of optical power and irradiance and ignition test | Testing performed competently. |
| IEC/IEEE 60079-30-1, Ed. 1.0 | 5.1.9 | Integral components resistance to water | Testing performed competently. |

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| Program 1 "Explosion pressure" | 2011-2012 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 2 "Spark ignition" | 2011-2012 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 3 "Flame Transmission" | 2013-2014 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 4 "Temperature Classification" | 2013-2014 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 5 "Electrostatic Charge" | 2015-2016 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 6 "Intrinsic Safety" | 2015-2016 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 7 "Explosion Pressure" | 2017-2018 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 8 "Pressurized Enclosure" | 2017-2018 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 9 “Battery Testing” | 2019-2020 | This participation was performed at DEKRA’s ExTL in Bochum. Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |
| Program 10 “Tests of Enclosures” | 2019-2020 | Satisfactory (exact information contained in the report provided by the Ex PT provider PTB) |

## Comments (including issues found during assessment)

The following issues found during the site assessment:

* Missing contract between MTSA and DEKRA; and
* Missing suitable equipment for restricted breathing and resistance to impact test.

Detailed information on this is shown in the site assessment report. All issues have been resolved to the satisfaction of the assessment team.

# ExCB for Certified Service Facilities Scheme

## Assessment references

### General references

1. IECEx 03-\* IECEx Certified Service Facilities Scheme covering repair and overhaul of Ex equipment – Rules of Procedure for the Scheme (IECEx 03-0) and for “sub-Schemes” on particular service activities (IECEx 03-5)
2. IECEx OD 316-5 IECEx Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment. Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities involved in the repair, overhaul and reclamation of Ex equipment
3. ISO/IEC 17065 General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services
4. IECEx TCD 60079-19, Technical Capability Document IEC 60079 -19: 2010, Explosive atmospheres - Parts 19: Equipment repair, overhaul and reclamation
5. IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities
6. IEC 60079-19 Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation
7. ExSFC Decision Sheets

NOTE The latest editions of the above documents were applied

### Additional references applied for this assessment

None

## Candidate ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Erwin ter Haar | Certification Manager  Lead Assessor |
| Theo Pijpker | Certification Manager |

## National marks and certificates

No national marks and certificates.

## Standards accepted

See clause Annex A of this report

## National differences to IEC standards

National differences to IEC standards are those for the EU Group differences listed in the latest version of the IECEx System Bulletin.

## Organisation

### Names, titles and experience of the senior executives

See 3.8.1.

### Name, title and experience of the quality management representative

See 3.8.2.

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments (years) |
| Erwin ter Haar | Certification Manager (CM) | 21 years, 14 years as CM |
| Theo Pijpker | Certification Manager (CM) | 31 years, 6 years as CM |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Mario Vleeming | Lead auditor | 14 years |
| Hendrik Jan Sijrier | Lead auditor | 16 years |
| Ben van Leeuwen | Lead auditor | 12 years |

## Organizational Structure

See Annexes B and C.

## Indemnity insurance

See 3.10.

## Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet

the requirements of the IECEx Scheme for the issuing of IECEx FARs and IECEx Service Facility CoCs.

## Committees (such as governing or advisory boards)

See 3.12.

## Certification operations

### National approval/certification Methods

No national approval or certification methods.

### Certification policy

Included in the quality policy, IECEx 03-5: Repair and Overhaul, Manual 04-5, Version 4.

### Application for certification

DEKRA’s IECEx 03-5 application form applies.

### Certification decision

Decision is made by either Erwin ter Haar or Theo Pijpker.

### Suspension and cancellation of certificates

IECEx 03-5: Repair and Overhaul, Manual 04-5, Version 4 covers the suspension and cancellation of certificates under Clause 4 with reference to IECEx 03-5, Edition 1.3.

## Statistics

Detail experience in assessment and certification of Ex related Service Facilities for the Ex Protection under this application during the past 2 years:

| Types of protection | ID | Comments |
| --- | --- | --- |
| Flameproof Enclosure "d" | d | 12 |
| Increased Safety "e" | E | 11 |
| Type of Protection "n" | N | 11 |
| Intrinsic Safety "i" | I | 2 |
| Oil Filled "o" | O | - |
| Pressurisation "p" | P | 1 |
| Dusts to IEC 60079-31 "t" | T | 7 |
| Dusts to IEC 61241-1 "tD" | tD | - |
| Dusts to IEC 61241-1-1 "DIP" | DIP | - |
| Other (e.g., non-electrical) | Ot | 11 |

## National accreditation

No national accreditation that covers IECEx 03-5 applicable.

## Assessment of service facilities and issue of FARs

DEKRA Certification B.V. manages audits as detailed in General Manual Team EPS, Manual 00 and IECEx 03-5: Repair and Overhaul Manual. DEKRA uses audit template Form 303-5, which is based on the IECEx template, but contains additional information for the non-electrical protection method.

NOTE Include information about how the ExCB applies the provisions of OD 060 if applicable

## Comments (including issues found during assessment)

The following issues found during the site assessment:

* Missing reference to ExSFC decision sheets and outdated OD references in quality documentation; and
* Overdue internal audit.

Detailed information on this is shown in the site assessment report. All issues have been resolved to the satisfaction of the assessment team.

# IECEx Conformity Mark Licensing Scheme

## Assessment references

1. IECEx 04 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – IECEx Conformity Mark Licensing Scheme – Rules
2. IECEx OD 422 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Procedures for the granting of Licenses to issue and use the IECEx Conformity Mark
3. IECEx OD 423 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Terms and Conditions for use of the IECEx Conformity Mark

NOTE The latest editions of the above documents were applied

## Comments (including issues found during assessment)

The procedure for IECEx 04 is covered in Team EPS Audit Manual ATEX UKEX IECEx 02 IECEx 04, Manual 01, Section 11. There are three staff that are qualified to do the audits and Checklist IECEx Conformity Mark License, Form 70 is used.

The following issue found during the site assessment:

* Missing application information and outdated OD references in quality documentation.

Detailed information on this is shown in the site assessment report. All issues have been resolved to the satisfaction of the assessment team.

# ExCB for IECEx Personnel Competence Scheme

## Assessment references

1. IECEx 05 IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System) IECEx Scheme for Certification of Personnel Competence for Explosive Atmospheres – Rules of Procedure
2. IECEx OD 501 IECEx Scheme for Certification of Personnel Competence for Explosive Atmospheres – Assessment procedures for IECEx acceptance of Certification Bodies (ExCBs) for the purpose of issuing and maintaining IECEx Certificates of Personnel
3. IECEx OD 503 IECEx Scheme for Certification of Personnel Competence for Explosive Atmospheres - ExCB Procedures for issuing and maintaining IECEx Certificates of Personnel Competencies
4. IECEx OD 504 IECEx Scheme for Certification of Personnel Competence for Explosive Atmospheres – Specification for Units of Competence Assessment Outcomes
5. IECEx OD 505 Site Re-Assessment Report for Assessment of IECEx Candidate and Accepted Ex Certification Bodies (ExCBs) for the IECEx 05 Certificate of Personal Competencies Scheme (CoPC)
6. IECEx OD 506 - Guidance on the use of the IECEx Certificates of Personnel Competence Scheme’s Assessment Question Bank by ExCBs IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities
7. ISO/IEC 17024 Conformity assessment — General requirements for bodies operating certification of persons
8. IECEx OD 507 Check list for assessment to ISO/IEC 17024
9. ExPCC Decision Sheets

Additional references applied for this assessment

None, IECEx OD 060 has not been used for this scheme.

## Candidate ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Theo Pijpker | Reviewer, examiner and Certification Manager |

## National certificates

No national certificates.

## Organisation

### Names, titles and experience of the senior executives

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Theo Pijpker | Certification Manager | 31 years, 6 years as CM |

### Name, title and experience of the quality management representative

See 3.8.2.

### Name and title of signatories for certification

|  |  |
| --- | --- |
| Name | Title |
| Theo Pijpker | Certification Manager |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Arthur Hilton | Project manager/ invigilator and assessor | 3 |
| Sjouke Eekma | Project manager/ invigilator and assessor / Certification Manager | 3 years at Dekra + 6 years before Dekra |

## Organizational Structure



## Indemnity insurance

See 3.10.

## Resources

The site assessment revealed the availability of competent technical staff, support staff, facilities and procedures/work instructions to undertake the IECEx 05 Certification activities. In addition to the DEKRA Certification B.V. facility in The Netherlands, DEKRA Certification B.V. uses examination offices and invigilators at two subcontractor facilities, also located in The Netherlands, for theoretical examinations. DEKRA also has staff and facilities in Japan and Korea that perform work under this scheme. There was one issue related to internal audits of these facilities, which was found to be in compliance with the IECEx requirements subsequent to the audit.

## Committees (such as governing or advisory boards)

See 3.12.

## Certification operations

### National approval/certification Methods

No national approval/certification methods.

### Certification policy

DEKRA Certification B.V.’s certification policy related to IECEx is contained within the General Manual Team EPS, Manual 00 and DEKRA IECEx 05 Manual.

NOTE Typically this may be a separate policy or included in the quality policy.

### Certification application, assessment and examination processes

The application, assessment and examination process is detailed in the manuals described in 7.10.2. Examples of theoretical examinations for all units within DEKRA’s scope were viewed as part of the reassessment and in compliance with the requirements of the IECEx. The facilities for testing practical skills are transportable and were viewed as part of the reassessment and in compliance with the requirements of the IECEx.

### Issuing of IECEx Personnel Competence Assessment Report (PCAR)

The issuance of PCARs is described in the IECEx 05 Manual and recorded in Dekra’s PCAR template, which includes any scope limitations.

### Decision on Certification

The decision on certification is taken by Theo Pijpker, who is not involved in training or examination of the candidate and is described in the IECEx 05 Manual.

### Suspension and cancellation of certificates

The suspension and cancellation of certificates is described in IECEx 05 Manual, chapter 5.

## Statistics

Detail experience in certification of personal competence for past two years.

|  |  |
| --- | --- |
| Unit | Experience |
| Unit Ex 000 – Basic knowledge and awareness | N/A (not in scope of Dekra) |
| Unit Ex 001 – Apply basic principles of protection in explosive atmospheres | 100 |
| Unit Ex 002 – Perform classification of hazardous areas | 15 |
| Unit Ex 003 – Install explosion-protected equipment and wiring systems | 30 |
| Unit Ex 004 – Maintain equipment in explosive atmospheres | 9 |
| Unit Ex 005 – Overhaul and repair of explosion-protected equipment | 8 |
| Unit Ex 006 – Test electrical installations in or associated with explosive atmospheres | 30 |
| Unit Ex 007 – Perform visual & close inspection of electrical installations in or associated with explosive atmospheres | 27 |
| Unit Ex 008 – Perform detailed inspection of electrical installations in or associated with explosive atmospheres | 27 |
| Unit Ex 009 – Design electrical installations in or associated with explosive atmospheres | 24 |
| Unit Ex 010 – Perform audit inspection of electrical installations in or associated with explosive atmospheres | 0 |

## Question bank

The incorporation of the central IECEx question bank is described in IECEx 05 Manual, chapter 8, Note 2.

## National accreditation

No national accreditation that covers IECEx 05.

## Comments (including issues found during assessment)

The following issues found during the site assessment:

* Missing monitoring of examination bodies;
* Overdue internal audit;
* Documentation not controlled within quality management system;
* Missing evidence of compliance with specific requirement in IECEx OD 504;
* Missing records for competency and certification documentation.

Detailed information on this is shown in the site assessment report. All issues have been resolved to the satisfaction of the assessment team.

# Annexes

See Contents. (add, modify or delete annexes as necessary). Please note the following instructions for the IEC template:

NOTE When creating a new annex **DO NOT** type the word Annex, just create a new empty page and then apply the styles ANNEXtitle to the first (empty) line. The word "Annex" followed by the letter "A" or "B", etc will automatically appear.

**TIP:** When typing annex titles, separate the lines of the title by "shift+return"

1. Scope for IECEx Certified Equipment Scheme
   1. Current standards

| Number | Title | Comments |
| --- | --- | --- |
| IEC 60079-0  Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |  |
| IEC 60079-1  Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof  enclosures “d” |  |
| IEC 60079-2  Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurized  enclosure “p’ |  |
| IEC 60079-5  Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” |  |
| IEC 60079-6  Edition 4.1 | Explosive atmospheres - Part 6: Equipment protection by oil immersion “o” |  |
| IEC 60079-7  Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increased  safety "e" |  |
| IEC 60079-11  Edition 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” |  |
| IEC 60079-13  Edition 2.0 | Explosive atmospheres -  Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" |  |
| IEC 60079-15  Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" |  |
| IEC 60079-18  Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” |  |
| IEC 60079-25  Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems |  |
| IEC 60079-26  Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga |  |
| IEC 60079-28  Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation |  |
| IEC/IEEE 60079-30-1  Edition 1.0 | Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements |  |
| IEC 60079-31  Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |  |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | Scope increase |
| IEC 60079-35-1  Edition 1.0 | Explosive atmospheres – Part 35-1: Caplights for use in mines susceptible to firedamp – General requirements – Construction and testing in relation to the risk of explosion |  |
| ISO 80079-36  Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements |  |
| ISO 80079-37  Edition 1.0 | Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Nonelectrical type of protection constructional safety ”c” control of ignition source ”b”, liquid immersion ”k” |  |
| IEC TS 60079-40  Edition 1.0 | Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems |  |
| IEC TS 60079-46  Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies |  |

* 1. Superseded standards

The following superseded standards may form part of a body’s scope, generally for historical reasons.

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| Number | Title | Comments |
| IEC 60079-27  Edition 2.0 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) | Yes |
| IEC 60079-30-1  Edition 1.0 | Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements | Yes |
| IEC 61241-0  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements | Yes |
| IEC 61241-1-1  Edition 2.0 | Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus | Yes |
| IEC 61241-4  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD" | Yes |
| IEC 61241-11  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' | Yes |
| IEC 61241-18  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" | Yes |
| IEC 62013-1  Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 1: General requirements - Construction and testing in relation to the risk of explosion | Yes |
| IEC 62086-1  Edition 1.0 | Electrical apparatus for explosive gas atmospheres - Electrical resistance trace heating - Part 1: General and testing requirements | Yes |
| IECEx DS2015/001A  2015 10 09 | Equipment assemblies | Yes |

1. Overall Organisation Chart



1. Organisation Chart of ExCB/ExTL

The number of employees for Business Line Explosion & Process Safety are:

The Netherlands:

Employees       33

Team Japan

Employees       8

Team Korea

Employees       6

Team North America

Employees       5

1. Accreditation Certificate for ISO/IEC 17065

