



Certification scheme Sustainable Logistics 4.0

ECQA Certified Sustainable Logistics Experts

Version 1.0: 2025-03-30

Copyright© ECQA GmbH All rights reserved.

E-Mail: info@ecqa.org

Internet: www.ecqa.org

Contents

1	Scope	3
2	Requirements for competence.....	3
3	Requirements for admission to the examination	4
4	Multiple-Choice Exam	4
5	Evaluation Criteria	4
6	Issue and validity of certificates.....	5
7	Recertification	5

1 Scope

This certification scheme specifies the procedure of how the competence of persons in the field of ECQA Certified Sustainable Logistics Expert, is being certified by ECQA GmbH.

The certification organization ECQA GmbH is an Austrian company, which is 60% owned by the non-profit organization European Certification and Qualification Association (ECQA).

The object of certification is exclusively / solely the competence of natural persons.

The certification is largely based on the principles of the International Standard ISO/IEC 17024:2012-07 Conformity assessment - General requirements for bodies certifying persons.

2 Requirements for competence

2.1 Competence Profile

Individuals certified in accordance with this certification scheme are competent to independently plan and deliver ECQA Certified Sustainable Logistics Expert as a service, using appropriate technical tools and applications.

2.2 Knowledge and skill requirements

Individuals performing ECQA Certified Sustainable Logistics Expert must demonstrate competencies as specified in Sections 2.2.1 through 2.2.4.

2.2.1 Module 1 – Logistics 4.0 in the smart society (Log4.0_sms)

Certified persons must have the following knowledge regarding **Logistics 4.0 in the smart society**:

- E1: Theoretical Background
- E2: Industry 4.0 and Logistics 4.0
- E3: Smart Warehouses
- E4: Digitalization and Logistics 4.0 Maturity Models
- (E5: Exercises, Implementation and Challenges resolution) -> Practical, not part of the Exam

2.2.2 Module 2 – Sustainability in Logistics 4.0 (SustLog4.0)

Certified persons must have the following knowledge regarding **Sustainability in Logistics 4.0**:

- E1: Introduction to Sustainability in Logistics 4.0
- E2: Economic Sustainability in Logistics 4.0
- E3: Social Sustainability in Logistics 4.0
- E4: Environmental Sustainability in Logistics 4.0

2.2.3 Module 3 – IIoT: Adopting 4.0 for Green Logistics (IIoT4.0)

Certified persons must have the following knowledge regarding **IIoT: Adopting 4.0 for Green Logistics**:

- E1: IIoT Technologies
- E2: Digital skills for IIoT
- (E3: Use cases of IIoT and Logistics) -> Practical, not part of exam

2.2.4 Module 4 – Green Challenge (GreenC)

Certified persons must have the following knowledge regarding **Green Challenge**:

- E1: Practical Module for Green Challenge

3 Requirements for admission to the examination

Prerequisite for admission to the Theoretical Examination (M1,2,3) is:

- the completion of a suitable training related to the contents according to section 2 or
- Proof of practical experience in the field of ECQA Certified Sustainable Logistics Experts of at least 2 years. The practical experience evidence must be submitted by the candidate before applying for the theoretical exam in written form. (E-mail submission to ECQA GmbH)

Prerequisite for admission to the Practical Examination (M4) is:

- Passing of all theoretical modules

4 Multiple-Choice Exam

The examination is done in writing as a multiple-choice test online. The exam consists of 30 total questions, from a pool of more than 90 questions in total, from the three subject areas as per section 2.2.1 to 2.2.3. Module 4 is solely practical and not part of the MC Exam.

For Module 4 evidence must be sent to ECQA. The evidence for the passing of M4 will be provided in the form of a PDF, sent by the professor (examiner) of the green challenge.

The maximum duration of the written exam is set at 60 mins per attempt.

5 Evaluation Criteria

5.1 Multiple-Choice Exam

Each question is scored with a maximum of one point each. There are several answer options per question. For each Module (M) according to section 2.2.1 to 2.2.3 questions will be asked for each Learning Objective.

Module 1: 6 total Questions

Module 2: 10 total Questions

Module 3: 14 total Questions

Every Module has to be passed with at least 50%.

5.2 Overall assessment and examination repetition

To pass the overall examination, at least 50% of per Modules must be achieved. Negatively assessed Modules can be repeated at a later date.

6 Issue and validity of certificates

The successful evaluation of the initial certification examination, according to section 5, is a prerequisite for the issuance of a certificate.

The certificates are valid for **2 years**.

7 Recertification

7.1 Criteria for renewal of the certificate

To renew the certificate, the certificate holder must fulfill the following criteria:

- 7.1.1** The certificate holder must provide evidence of current, relevant practical activity. This must be provided in the form of a description of the activity or project, where the examined Material of the Modules is applied.
- 7.1.2** The recertification fee must be paid by the certificate holder and a valid e-mail address must be provided, so that the new certificate can be delivered electronically.

7.2 Issue of the certificate

After fulfilling all the criteria, according to 7.1.1 and 7.1.3, the certificate is renewed for **3 years**.

7.3 Deadlines

7.2

Recertification must take place before the certificate expires. In exceptional cases, recertification may also take place after expiry of the certificate. In this case, the following conditions apply:

- 7.3.1** If the recertification takes place after the expiration of the validity of a certificate within a period of maximum 6 months, the recertification shall be carried out in accordance with the criteria and process specified in Section 7.1. Otherwise, an audit to the extent of the initial certification shall be performed in accordance with Section 5.
- 7.3.2** The validity of the certificate is always based on the date of initial certification. This means that the date of the initial certification is always taken as the starting point, regardless of the recertification date.