

# CATALOGUE

# 2026

## FORMATION - TRAINING

## NORMALISATION STANDARDIZATION



ILNAS

ANEC

## Le mot du Directeur / A word from the Director

L'ILNAS, Organisme luxembourgeois de normalisation, avec le soutien de l'ANEC GIE (Agence pour la Normalisation et l'Économie de la Connaissance), a le plaisir de vous présenter son catalogue de formation continue en normalisation technique pour l'année 2026.

[La stratégie de l'Union Européenne en matière de normalisation](#) démontre que ce domaine est crucial pour assurer la compétitivité des entreprises à l'international tout en soutenant leur transition écologique et numérique. Cependant, de nombreuses organisations manquent encore de compétences en normalisation technique, les empêchant de tirer pleinement parti de ses avantages.

Conscient de cette situation, l'ILNAS pilote la [stratégie normative luxembourgeoise 2024-2030](#), qui positionne la normalisation technique comme un outil de performance et d'excellence au service de l'économie. Cette stratégie vise à encourager l'utilisation des normes par les acteurs économiques, à favoriser la participation des experts nationaux au processus de normalisation et à développer l'éducation à la normalisation.

S'inscrivant dans la « [Politique pour l'éducation et la recherche dans le cadre de la normalisation technique \(2025-2030\)](#) », notre offre de formation fournie par ce catalogue contribue à atteindre ces objectifs en répondant aux besoins des acteurs nationaux pour s'approprier la matière normative. Elle vise également à satisfaire leurs attentes en matière de connaissances normatives spécifiques, aussi bien dans les secteurs identifiés comme porteurs par la stratégie normative nationale - Technologies de l'Information et de la Communication (TIC), construction et aérospatial - que dans les domaines transversaux tels que l'évaluation de la conformité et le développement durable.

Notre équipe reste à votre disposition pour vous accompagner dans le développement de vos compétences et projets en matière de normalisation.

ILNAS, as Luxembourg's national standards body, with the support of ANEC EIG (Agency for standardization and knowledge-based economy), is pleased to present its training catalogue in technical standardization for the year 2026.

[The European Union strategy on standardization](#) demonstrates that this domain is crucial to ensuring companies' international competitiveness, all while supporting their green and digital transition. However, many organizations still lack expertise in technical standardization, preventing them from fully taking advantage of its benefits.

Well aware of this situation, ILNAS is running the [2024-2030 national standardization strategy](#), which positions technical standardization as a tool for performance and excellence at the service of the economy. This strategy aims to encourage the use of standards by economic operators, promote the participation of national experts in the standardization process, and develop education about standardization.

In accordance with the « [Policy for education and research in the field of technical standardization \(2025-2030\)](#) », our training offer contributes to achieving these objectives by addressing the needs of national actors in the field of standards. It also aims to meet their expectations in terms of specific standardization knowledge, whether in the growth sectors identified by the national standardization strategy - Information and Communication Technologies (ICT), construction, and aerospace - or in cross-functional areas such as conformity assessment and sustainable development.

Our team remains at your disposal to assist you in the development of your standardization skills and projects.

Jean-Marie Reiff  
Directeur / Director - ILNAS

## Nos entités / Our entities

The logo for ILNAS, featuring the letters 'ILNAS' in a bold, sans-serif font. The 'I' and 'L' are blue, while the 'N' and 'A' are orange, and the 'S' is blue.

Institut luxembourgeois de la normalisation,  
de l'accréditation, de la sécurité et qualité  
des produits et services

L'ILNAS est l'Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services. Créé en 2008 en tant qu'administration publique sous la tutelle du Ministre de l'Économie, des PME, de l'Énergie et du Tourisme, l'ILNAS constitue aujourd'hui un réseau de compétences en matière de qualité et de sécurité des produits et services, dont les missions soutiennent la compétitivité nationale.

L'ILNAS, en tant qu'Organisme luxembourgeois de normalisation et membre des organismes européens et internationaux de normalisation (CEN, CENELEC, ETSI, ISO, IEC, ITU), promeut l'usage des normes et encourage les entreprises à s'engager dans la normalisation.

ILNAS is the Luxembourg institute for standardization, accreditation, safety and quality of goods and services. Created in 2008 as a public administration under the authority of the Minister of the Economy, SME, Energy and Tourism, ILNAS currently represents a network of competencies relating to quality and safety of products and services, whose missions support national competitiveness.

ILNAS, as the Luxembourg's standards body and member of the European and international standardization organizations (CEN, CENELEC, ETSI, ISO, IEC, ITU), promotes the use of standards and encourages companies to benefit from the participation in standardization.



Créée en 2010, l'Agence pour la normalisation et l'économie de la connaissance (ANEC) est un groupement d'intérêt économique (GIE) qui a pour objet de supporter l'ILNAS dans l'exécution de ses stratégies dans les domaines de la normalisation et de la métrologie, ainsi que la recherche appliquée dans le but de soutenir la compétitivité des entreprises au Grand-Duché de Luxembourg ou d'approfondir la connaissance socio-économique du pays.

Created in 2010, the «Agency for standardization and knowledge-based economy» (ANEC) is an economic interest grouping (EIG) whose goal is to support ILNAS in the execution of its strategies in the fields of standardization and metrology, as well as applied research with the aim of supporting the competitiveness of companies in the Grand Duchy of Luxembourg or deepening the socio-economic knowledge of the country.



## Sommaire / Table of contents

|         |                                                     |
|---------|-----------------------------------------------------|
| 6 - 7   | Approche pédagogique - Pedagogical approach         |
| 8 - 18  | Formations - Trainings                              |
| 20 - 29 | Sessions de sensibilisation - Awareness sessions    |
| 30 - 31 | Informations - Information                          |
| 32 - 33 | Conditions générales - General terms and conditions |
| 34      | Inscriptions - Registrations                        |

## Approche pédagogique

Toutes nos formations peuvent être dispensées dans nos locaux (Esch-Belval) ou au sein de votre organisation. Pour répondre au mieux à vos besoins et vous offrir une formation de qualité, nous utilisons l'approche suivante :



### PENDANT LA FORMATION : OUTILS ET MÉTHODE PÉDAGOGIQUE

Pendant le cours, le formateur/la formatrice utilise différents outils, tels que :

- Interaction et collaboration
- Aspects théoriques et pratiques
- Exercices et études de cas dans votre secteur



### APRÈS LE COURS : ÉVALUATION ET ACCOMPAGNEMENT

Après le cours, vous serez contacté(e) pour échanger sur :

- Votre évaluation
- Vos questions
- Vos suggestions
- Vos besoins en formation ou accompagnement

## Pedagogical approach

All our trainings may be provided at our offices (Esch-Belval) or within your organization. In order to answer your needs and to deliver a quality training, we use the following approach:



### DURING THE COURSE: PEDAGOGICAL TOOLS AND METHOD

During the course, the trainer will use different tools, such as:

- Interaction and collaboration
- Theoretical and practical aspects
- Exercises and study cases in your sector



### AFTER THE COURSE: ASSESSMENT AND COACHING

After the course, you will be contacted to discuss on:

- Your evaluation
- Your questions
- Your suggestions
- Your training and coaching needs

## Sommaire / Table of contents

### *Normalisation / Standardization*

|                                                            |    |
|------------------------------------------------------------|----|
| National delegate in standardization in Luxembourg .....   | 10 |
| Délégué(e) national(e) en normalisation au Luxembourg..... | 11 |

### *ICT*

|                                                          |    |
|----------------------------------------------------------|----|
| Quantum technologies and technical standardization ..... | 12 |
|----------------------------------------------------------|----|

### *Construction*

|                                                          |    |
|----------------------------------------------------------|----|
| Introduction à la deuxième génération des Eurocodes..... | 13 |
|----------------------------------------------------------|----|

### *Conformité / Conformity*

|                                                                                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------|----|
| Conformity assessment and standardization.....                                                                                      | 14 |
| Overview of the legal framework and standards to support the placing<br>of products and services on the European single market..... | 15 |
| Normalisation et législation .....                                                                                                  | 16 |
| Standardization and legislation .....                                                                                               | 17 |
| Standardization and legislation: AI use case .....                                                                                  | 18 |

National delegate in standardization in Luxembourg

Description

This training is dedicated to the new national delegates in standardization registered in ISO, IEC, CEN or CENELEC technical committees through ILNAS. It will provide all the required information to understand the role of the delegates and the tools at their disposal to participate in technical standardization.

Learning outcomes and objectives

- Review the standardization process and its stakes
- Understand the roles and the missions of the national delegates
- Master the electronic tools and services available to national delegates

Program

- **Overview of standardization**
  - Definitions
  - Standardization ecosystem
  - Process of developing a standard
- **Participate in standardization**
  - Technical committees
  - Roles and missions
  - Rights and duties
  - Tools and services
- **Use of the electronic tools**
- **Exercises**

Target audience

National delegates in standardization.

| Details                                                                                                            |                 |                                                                    |                     |
|--------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------|---------------------|
| <ul style="list-style-type: none"><li>• <b>Duration:</b></li><li>• <b>Place:</b></li><li>• <b>Price:</b></li></ul> | 2h              | <ul style="list-style-type: none"><li>• <b>Date:</b></li></ul>     | regularly organized |
|                                                                                                                    | ILNAS' premises | <ul style="list-style-type: none"><li>• <b>Language:</b></li></ul> | EN                  |
|                                                                                                                    | free-of-charge  | <a href="#">Registration</a>                                       |                     |

Délégué(e) national(e) en normalisation au Luxembourg

Description

Cette formation est dédiée aux nouvelles/nouveaux délégué(e)s nationales/nationaux en normalisation inscrit(e)s dans les comités techniques ISO, IEC, CEN ou CENELEC via l'ILNAS. Elle fournira toutes les informations nécessaires pour comprendre le rôle de délégué(e) et les outils mis à disposition pour participer à la normalisation technique.

Résultats d'apprentissages et objectifs

- Découvrir le système de normalisation et ses enjeux
- Comprendre le rôle et les missions des délégué(e)s en normalisation
- Maîtriser les outils électroniques et les services à disposition des délégué(e)s en normalisation

Programme

- **Panorama de la normalisation**
  - Définitions
  - L'écosystème de la normalisation
  - Processus d'élaboration d'une norme
- **Participer à la normalisation**
  - Comités techniques
  - Rôles et missions
  - Droits et devoirs
  - Outils et services
- **Utilisation des outils électroniques**
- **Exercices**

Public cible

Délégué(e)s nationales/nationaux en normalisation.

| Détails                                                                                                       |                   |                                                                  |                        |
|---------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------|------------------------|
| <ul style="list-style-type: none"><li>• <b>Durée:</b></li><li>• <b>Lieu:</b></li><li>• <b>Prix:</b></li></ul> | 2h                | <ul style="list-style-type: none"><li>• <b>Date:</b></li></ul>   | organisé régulièrement |
|                                                                                                               | Locaux de l'ILNAS | <ul style="list-style-type: none"><li>• <b>Langue:</b></li></ul> | FR                     |
|                                                                                                               | gratuit           | <a href="#">Inscription</a>                                      |                        |



Quantum technologies and technical standardization

Description

Quantum technologies (QT) are rapidly growing fields that are opening the way to great transformations in all the economic sectors. QT are advancing toward technological maturity and wider adoption. At the same time, technical standardization is recognized as one of the most effective and powerful tool to rapidly capitalize on knowledge and disseminate it throughout industries. Thus, technical standardization is playing an important role for a widespread adoption of QT. To this end, multiple standardization initiatives are emerging on the European and international scene. This training aims to highlight the existing challenges of QT and provide insights into related standardization activities.

Learning outcomes and objectives

- Gain an overview of the state-of-the-art in quantum technologies
- Identify current challenges of quantum technologies and get insights from a practical use case
- Be aware of the ongoing standardization activities addressing quantum technologies challenges
- Identify relevant standards in quantum technologies

Program

- **Quantum technologies overview**
  - Introduction to quantum technologies
  - Main subfields of quantum technologies
- **Economic overview of quantum technologies**
  - Global investments in quantum technologies development
- **Practical aspects of quantum technologies**
  - Overview of current challenges in quantum technologies
  - Practical use case scenario
  - Solutions through technical standardization
- **Standardization initiative related to quantum technologies**
  - Introduction to technical standardization
  - Technical committees working on quantum technologies
  - Standards and ongoing projects related to quantum technologies
- **National standardization efforts**

Target audience

Professionals and researchers.

| Details            |                      |                              |            |
|--------------------|----------------------|------------------------------|------------|
| • <b>Duration:</b> | 3h                   | • <b>Date:</b>               | 23/04/2026 |
| • <b>Place:</b>    | ILNAS' premises      | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | 200€ (excluding VAT) | <a href="#">Registration</a> |            |

Introduction à la deuxième génération des Eurocodes

Description

Avec la publication de la deuxième génération des Eurocodes, l'élaboration des annexes nationales devient une étape imminente. Ces documents auront un impact direct sur de nombreux acteurs nationaux du secteur de la construction, qu'il s'agisse de professionnels, d'étudiants ou de chercheurs. Cette formation fournira un aperçu sur les Eurocodes afin de mieux comprendre leurs origines, connaître les évolutions en cours, et de fournir un état des lieux de l'avancement des annexes nationales.

Résultats d'apprentissages et objectifs

- Comprendre l'importance des Eurocodes pour le secteur de la construction
- Connaître les modalités de participation à l'élaboration des Eurocodes et des annexes nationales
- Faciliter la mise en œuvre des nouveaux documents
- Comprendre les développements européens connexes

Programme

- **Contexte européen et national des Eurocodes**
  - Historique
  - Etat actuel
- **Présentation du « Guide sur les Eurocodes et les Annexes Nationales au Luxembourg »**
  - Structure
  - Evolutions par rapport à la première génération
  - Calendrier de mise en œuvre et retrait des anciens Eurocodes
- **Risques et opportunités de la transition vers les nouveaux Eurocodes**
- **Introduction aux produits et services de l'ILNAS ainsi qu'aux activités actuelles dans le secteur de la construction**

Public cible

Bureaux d'étude, architectes, propriétaires, exploitants, utilisateurs, entrepreneurs, fabricants.

| Détails         |                   |                              |            |
|-----------------|-------------------|------------------------------|------------|
| • <b>Durée:</b> | 2h                | • <b>Date:</b>               | 23/11/2026 |
| • <b>Lieu:</b>  | Locaux de l'ILNAS | • <b>Langue:</b>             | FR         |
| • <b>Prix:</b>  | gratuit           | <a href="#">Inscriptions</a> |            |



Conformity assessment and standardization

Description

Conformity assessment is a key element that helps to build trust within the economy and fosters national and international trades. The training aims to present the different concepts related to conformity, such as the presumption of conformity, the conformity assessment and the accreditation, and will explain the key role of technical standardization in this context. The participants will gain knowledge of related standardization activities supporting the compliance with the legislation and also of the full conformity assessment ecosystem.

Learning outcomes and objectives

- Identify the different elements contributing to the chain of building trust
- Know the different conformity assessment methods and the main related standards
- Understand the concept of presumption of conformity and the role of harmonised standards
- Familiarize with the legal framework for harmonised standards
- Gain insights on the usage of standards for conformity in a selection of use cases

Program

- **Chain of building trust**
  - Definitions
  - Main actors
  - Elements of the chain of building trust
  - Presumption of conformity
- **Overview of standardization**
  - Definition
  - Usage and benefits of standards
  - Development process of standards
  - National standardization effort
- **Conformity assessment methods**
- **Conformity assessment standards**
  - Technical committees (ISO/CASCO and CEN/CENELEC JTC 1)
  - ISO CASCO Toolbox standards
- **General requirements for the conformity assessment bodies**
- **Accreditation**
  - National accreditation body's role
  - The different organizations (EA/ILAC/IAF)
  - Peer evaluation and mutual recognition

Target audience

Professionals, conformity assessment bodies, auditors, distributors and researchers.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 6h              | • <b>Date:</b>               | 18/11/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |

Overview of the legal framework and standards to support the placing of products and services on the European single market

Description

Technical standardization plays an essential role for products and services marketing: by defining the state of the art, standards help organizations to focus their design and production activities on tasks that bring real added value to the end product, but they also facilitate the uptake of new goods by the market. Furthermore, in the European context, standards play an even more direct role by helping to remove barriers to market entry: they are efficient instruments to demonstrate the product or service's conformity to legal requirements when they support the in-force legislation. The goal of this training is to introduce participants to the fundamentals of technical standardization, present the legislative framework for placing products or services on the European single market and provide organizations tools to limit the risks associated with product and services marketing.

Learning outcomes and objectives

- Understand the European safety regulation and legislative framework shaping the single market
- Support your business with standards
- Provide tools to identify the harmonised standards applicable to your products

Program

- **Standardization**
  - Definitions
  - Development process of standards
  - Usage and benefits of standards
  - How to find standards that support your innovation
  - National standardization community
- **Product safety and product compliance**
  - Regulation on general product safety
  - New Legislative Framework
  - Regulation on market surveillance and compliance of products
  - Sectoral legislation according to the product
  - Essentials requirements and role of harmonised standards
  - Concept of presumption of conformity
- **Conformity assessment**
  - Concept
  - Different types of assessment (activities and modules)
  - Notification bodies

Target audience

Industrials, SMEs, start-ups, ditributors, and researchers.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 2h              | • <b>Date:</b>               | 11/02/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |



Normalisation et législation

Description

La législation européenne définit les normes et leur application comme volontaires et chaque organisation est libre de s'en servir pour développer de nouveaux services, compétences, procédures ou produits. Cependant dans certains cas, les exigences techniques présentes dans les normes soutiennent des exigences légales fournies par la législation européenne ou nationale, et leur application peut, par conséquent, devenir recommandée voire obligatoire. Cette obligation de se conformer aux normes peut également avoir lieu dans un contexte contractuel. Cette formation fournira les connaissances nécessaires aux participants afin de comprendre le rôle des normes dans de telles situations.

Résultats d'apprentissages et objectifs

- Connaître le cadre législatif de la normalisation
- Comprendre le caractère obligatoire des normes
- Comprendre la place des normes dans la législation européenne et nationale

Programme

- **Législation européenne en matière de normalisation**
  - Définitions
  - Concepts
  - Les organisations reconnues
- **Présomption de conformité**
  - Les différents règlements européens
  - Les normes harmonisées
  - Les organismes de notification
- **Les normes dans la législation nationale et européenne**
- **Contexte contractuel**

Public cible

Industriels, PME, start-ups, distributeurs, régulateurs et chercheurs.

| Détails         |                   |                             |            |
|-----------------|-------------------|-----------------------------|------------|
| • <b>Durée:</b> | 3h                | • <b>Date:</b>              | 29/04/2026 |
| • <b>Lieu:</b>  | Locaux de l'ILNAS | • <b>Langue:</b>            | FR         |
| • <b>Prix:</b>  | gratuit           | <a href="#">Inscription</a> |            |

Standardization and legislation

Description

European legislation defines standards and their application as voluntary, and each organization is free to use them to develop new services, skills, procedures or products. Although this concept is one of the key concepts of the European single market, it exists some case where the technical requirements contained in standards support legal requirements provided by European or national legislation, and consequently their application may become recommended or even mandatory. The obligation to comply with standards may also arise in a contractual context. This course will provide to participants the knowledge to understand the role of standards in these particular situations.

Learning outcomes and objectives

- Apprehend the legislative framework of technical standardization
- Understand the specific cases in which standards can become mandatory
- Understand the role of standards in the European and national legislation

Program

- **European legislative framework on technical standardization**
  - Definitions
  - Concepts
  - Recognized organizations
- **Presumption of conformity**
  - The various European regulations/directives
  - Harmonised standards
  - Notification bodies
- **Standards in national and European legislation**
- **Contractual context**

Target audience

Industrials, SMEs, start-ups, distributors, regulators and researchers.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 3h              | • <b>Date:</b>               | 08/12/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |

Standardization and legislation: AI use case

Description

In July 2024, the European Union adopted the Artificial Intelligence (AI) Act. To facilitate the implementation of the legislation and compliance with it, the European Commission also requested the development of European standards to support it. The training will explore the AI standardization landscape and its links with the regulatory framework. Particular attention will be given to the work of the European standardization committee, CEN/CLC JTC 21 - Artificial Intelligence, which is responsible for the development of these standards. In addition, the training will cover certain international standards, which are also considered in this frame.

Learning outcomes and objectives

- Apprehend the legislative framework of technical standardization
- Be aware of the principle of presumption of conformity and harmonised standards
- Understand the current AI standardization landscape and identify the links between the requirements of the European regulation on AI and existing standards

Program

- **Technical standardization and related European legislative framework**
  - What is a standard?
  - Characteristics of a standard
  - Standards in national and European legislation
- **Legal compliance and presumption of conformity**
  - New approach concept and New Legislative Framework
  - Regulation on market surveillance and compliance of products
  - Concept of presumption of conformity
  - Case study: AI Act
- **Overview of AI standardization landscape**
  - Overview of ISO/IEC JTC 1/SC 42
  - Overview of CEN/CLC JTC 21
  - Other related standardization activities (ETSI, IEEE)
- **Conformity assessment and AI standards**
  - European standards: conformity assessment framework, risk management, quality management, etc.
  - International standards and parallel development: natural language processing, logging, human oversight.
- **National efforts for technical standardization in AI**

Target audience

Industrials, SMEs, start-ups, regulators and researchers.

| Details                                                                                                            |                      |                                                                    |            |
|--------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|------------|
| <ul style="list-style-type: none"><li>• <b>Duration:</b></li><li>• <b>Place:</b></li><li>• <b>Price:</b></li></ul> | 3h                   | <ul style="list-style-type: none"><li>• <b>Date:</b></li></ul>     | 30/11/2026 |
|                                                                                                                    | ILNAS' premises      | <ul style="list-style-type: none"><li>• <b>Language:</b></li></ul> | EN         |
|                                                                                                                    | 400€ (excluding VAT) | <a href="#">Registration</a>                                       |            |

## Sommaire / Table of contents

### *ICT*

Technical standardization in data governance and cloud environments..... 22

### *Spatial / Space*

Introduction to standardization in the field of space ..... 23

### *Développement durable / Sustainability*

Environmental management and technical standardization ..... 24

Energy management and technical standardization ..... 25

Green ICT and technical standardization ..... 26

Hydrogen and standards: European and Luxembourg perspectives ..... 27

Technical standards on sustainable mobility ..... 28

Technical standardization in data governance and cloud environments

Description

Efficient data governance and the use of cloud environments support modern business operations, enabling scalability, collaboration, and flexibility. However, the increasing complexity of both data ecosystems and cloud systems present challenges in ensuring data integrity, security, interoperability, and compliance. Technical standardization addresses these challenges by providing unified guidelines, fostering interoperability, and promoting best practices, helping organizations to maximize the value of their data and cloud-based services. This awareness session will explore data governance and cloud environments, highlighting the critical role of technical standardization in this rapidly evolving landscape.

Objectives

- Apprehend the fundamentals of data usage in cloud environments
- Understand the crucial role of technical standardization in data and cloud environments
- Gain awareness of current standardization activities related to data and cloud environments

Program

- **Introduction to data and cloud computing**
  - Overview of cloud environments and their role in modern IT ecosystems
  - Importance of data in the digital economy
- **Regulatory aspects of data governance and cloud environments**
  - European initiatives: Overview of the Data Act
  - The role of international and European standards in addressing regulatory requirements
- **Technical standardization in data governance and cloud environments**
  - Technical committees working on data and cloud, and relevant standardization developments
  - Examples of potential standards supporting the Data Act regulation
  - Examples of application of specific standards
- **National standardization efforts**

Target audience

Industrials, SMEs, start-ups and researchers.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 2h              | • <b>Date:</b>               | 24/09/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |

Introduction to standardization in the field of space

Description

Over the last decade, the doors to space have opened wide to private launchers which consequently created opportunities to new stakeholders by developing and implementing innovative services and applications. However, this progress brought also numerous challenges - such as more complex space systems - and risks, like satellite collisions due to highly-occupied orbits. The ongoing standardization in this domain aims to provide positive answer to mitigate these dares and, concurrently, to foster innovation within space organizations. This session will allow every participant to understand the process of standardization, the active technical committees, fora and consortia which are supporting space activities, and to identify the standards which are useful for his/her application.

Objectives

- Be aware of the standardization process
- Know the main organization technical committees related to space activities
- Know how to search standards supporting participants' activities
- Be aware of current standards and also the future developments in the field of space

Program

- **Introduction to standardization**
  - Definitions
  - Usage and benefits of standards
  - Development process of standard
  - Standardization organizations
- **Overview of standardization activities in space sector**
  - Overview of relevant technical committees from recognized standardization organizations and fora and consortia
  - Presentation of ongoing standards development
  - Examples of standards in several sub-domains (manufacturing, development, space communication protocol, etc.)
- **National standardization efforts**

Target audience

Professionals, researchers and students.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 3h              | • <b>Date:</b>               | 30/09/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |

Environmental management and technical standardization

Description

Environmental protection and sustainable development are at the core of European and national policies and legislation, such as the European Green Deal, Regulation (EU) 2021/1119 establishing the framework for achieving climate neutrality ("European Climate Law"), and Luxembourg's PNDD (*Plan National pour un développement durable*). International standards – in particular the ISO 14000 series – provide organizations with practical tools to more easily align with these political and legal frameworks, and to help demonstrating their commitment to environmental sustainability. This session provides an overview of European and national political and legal frameworks related to environmental management, introduces relevant ISO standards, and explains how stakeholders can engage in related standardization activities.

Objectives

- Know the European and national policies and legal frameworks
- Explore main ISO standards for environmental management and greenhouse gas accounting supporting the legal frameworks
- Discover opportunities to participate in technical standardization and contribute to future developments in the field of environmental management

Program

- **Introduction to environmental management**
  - Standardization and regulation
  - Definition of a standard
  - Interplay between standards and legislation
  - Standardization committees for environmental management
- **Overview of European and national policies and legal frameworks for environmental management**
  - European policies and legal framework such as the European Green Deal and topic related legislations
  - Luxembourg's National Plan for Sustainable Development (PNDD)
- **Overview of technical committees and existing standards on environmental management**
  - ISO/TC 207 and subcommittees and ISO 14001 – Environmental management systems — Requirements with guidance for use
  - ISO standards on environmental auditing activities
  - ISO standards on environmental labelling
  - ISO standards on environmental performance evaluation
  - ISO standards on greenhouse gas and climate change management and related activities
- **National standardization efforts**

Target audience

Consultants, HSE/ESG/sustainability managers, researchers and students, companies considering ISO certification or improved compliance.

| Details                         |  |                              |  |
|---------------------------------|--|------------------------------|--|
| • <b>Duration:</b> 3h           |  | • <b>Date:</b> 12/03/2026    |  |
| • <b>Place:</b> ILNAS' premises |  | • <b>Language:</b> EN        |  |
| • <b>Price:</b> free-of-charge  |  | <a href="#">Registration</a> |  |

Energy management and technical standardization

Description

Energy efficiency and management are central pillars of the European Green Deal, the EU Energy Efficiency Directive, and Luxembourg's Integrated National Energy and Climate Plan (PNEC). International and European standards, such as the ISO 50000 series or the EN 16247 series, provide organizations with practical tools to implement systematic energy management, supporting continuous energy performance improvements, reductions of energy cost and of greenhouse gas emissions, and compliance with EU and national objectives. This session provides a strategic overview of European and national policy and legal frameworks related to energy efficiency and management, introduces relevant European and international standards, and explains how stakeholders can engage in related standardization activities.

Objectives

- Understand the role of main standards on energy management
- Learn how standards support energy performance improvements and compliance
- Discover opportunities to participate in technical standardization and contribute to future developments in the field of energy efficiency and management

Program

- **Introduction to energy efficiency and management**
  - Standardization and regulation
  - Definition of a standard
  - Interplay between standards and legislation
  - Standardization committees for energy management
- **Overview of European and national policies and legal frameworks on energy efficiency**
  - The European Green Deal
  - Regulation (EU) 2021/1119 establishing the framework for achieving climate neutrality
  - Directive (EU) 2023/1791 on energy efficiency
  - Luxembourg's Integrated National Energy and Climate Plan (PNEC)
- **Overview of technical committees and existing standards on energy management**
  - ISO/TC 301 and ISO 50001– Energy management systems — Requirements with guidance for use
  - Other standards of the ISO 50000 family (such as ISO 50005, ISO/PAS 50010 or ISO 50003)
  - CEN/CLC/JTC 14 and EN 16247/ISO 50002 series – Energy audits
- **National standardization efforts**

Target audience

Consultants, HSE/ESG/energy managers, researchers and students, auditors, companies considering ISO certification or improved compliance.

| Details                         |  |                              |  |
|---------------------------------|--|------------------------------|--|
| • <b>Duration:</b> 3h           |  | • <b>Date:</b> 28/04/2026    |  |
| • <b>Place:</b> ILNAS' premises |  | • <b>Language:</b> EN        |  |
| • <b>Price:</b> free-of-charge  |  | <a href="#">Registration</a> |  |

Green ICT and technical standardization

Description

The rapid growth of digital technologies has increased the importance of sustainability within the ICT sector. Green ICT refers to a set of principles and practices aimed at reducing the environmental impact of digital systems throughout their lifecycle, from design and development to deployment and end-of-life management. In parallel, technical standardization provides a common foundation for defining best practices, ensuring interoperability, and supporting measurable and comparable sustainability efforts. This awareness session aims to provide participants with a broad understanding of Green ICT concepts and the role of standards in enabling more sustainable, efficient, and responsible digital technologies.

Objectives

- Understand the main challenges and drivers of Green ICT
- Identify the environmental impacts of ICT systems across their lifecycle
- Recognize the role of technical standardization in supporting sustainability, interoperability, and best practices
- Be aware of existing standards related to Green ICT

Program

- **Introduction and context**
  - Environmental footprint of the ICT sector
  - Objectives and scope of the awareness session
- **Fundamentals of Green ICT**
  - Definition and key principles of Green ICT
  - Main challenges and drivers
  - Lifecycle perspective on ICT sustainability
- **Environmental impacts of ICT systems**
  - Manufacturing and supply chain impacts
  - Energy consumption during operation (devices, networks, and data centers)
  - Role of software efficiency and digital services
  - End-of-life management and electronic waste
- **Technical standardization: concepts and role**
  - What is technical standardization?
  - Why standards matter in the Green ICT domain?
- **Standardization activities related to Green ICT**
  - Overview of international and European technical committees related to Green ICT
  - Existing standards supporting Green ICT
- **National standardization efforts**

Target audience

Developers, software architects, IT managers, digitalization managers, fintech managers, digital start-ups and scale-ups, CSR / ESG managers in digital service companies, students and researchers in sustainable computing.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 2h              | • <b>Date:</b>               | 01/06/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |

Hydrogen and standards: European and Luxembourg perspectives

Description

Hydrogen is rapidly gaining attention as a fuel, feedstock, and energy carrier with applications in mobility, industry, construction, power and buildings. It plays vital role in the EU Green Deal, the European Hydrogen Strategy and the Luxembourg PNDD (*Plan National pour un développement durable*), where the reduction of carbon emissions is urgent. Standards are key to ensure safety, interoperability and sustainability across hydrogen value chain. This awareness session offers an overview of hydrogen technologies, the relevant international standards, and their links to European and national strategies. It also highlights how Luxembourg stakeholders can actively contribute to international and European standardization activities through ILNAS, in alignment with the Luxembourg Standardization Strategy 2024-2030.

Objectives

- Understand the concept of hydrogen technologies and related challenges
- Gain insights on European and Luxembourg's hydrogen strategies
- Discover the role of international and European standards (ISO, IEC, CEN, CENELEC) for hydrogen
- Learn how Luxembourg stakeholders can participate in standardization work

Program

- **What is hydrogen?**
  - Hydrogen basics
  - Role of hydrogen: production and storage and storage
  - Types of hydrogen
  - Flexible application (transportation, industries, integrated energy systems)
- **Strategic context**
  - Hydrogen in the EU Green Deal and the European Hydrogen Strategy
  - Luxembourg's PNDD 2030 and national ambitions
  - Luxembourg Standardization Strategy 2024-2030
- **Role of standards**
  - Standards as enablers of safety, interoperability, market uptake
  - Link with regulations and innovation
- **Technical committees and standardization work**
  - International technical committee ISO/TC 197 - Hydrogen technologies
  - European technical committees such as CEN/CLC/JTC 6 - Hydrogen in energy systems, CEN/TC 268 - Cryogenic Vessels, etc.
- **Applications and opportunities in Luxembourg**
- **National standardization efforts**

Target audience

Professionals, researchers and students, companies exploring hydrogen projects.

| Details            |                 |                              |            |
|--------------------|-----------------|------------------------------|------------|
| • <b>Duration:</b> | 2h              | • <b>Date:</b>               | 10/07/2026 |
| • <b>Place:</b>    | ILNAS' premises | • <b>Language:</b>           | EN         |
| • <b>Price:</b>    | free-of-charge  | <a href="#">Registration</a> |            |



Technical standards on sustainable mobility

Description

Sustainable mobility enables eco-friendly, accessible, and efficient transportation through low-emission solutions, active transit options, intelligent infrastructure, and supportive policies, all aimed at reducing pollution, enhancing user-friendliness, and improving quality of life. In this frame, technical standardization is essential for ensuring interoperability across diverse systems and technologies within this complex landscape. Thus, this awareness session will provide an overview of sustainable mobility and the pivotal role of technical standardization in driving its development.

Objectives

- Understand the concept of sustainable mobility and its key components
- Recognize the environmental, societal, and economic benefits of sustainable mobility
- Gain awareness of current standardization activities supporting the sustainable mobility development

Program

- **Introduction to sustainable mobility**
  - Overview of sustainable mobility, including its impact on the environment, society, and economy
- **Future trends in sustainable mobility**
  - Integration of Intelligent Transport Systems (ITS) into transportation system
  - Use of alternative energy in transport, especially for heavy-duty and long-range transport
- **Technical committees working on sustainable mobility and relevant standardization developments**
  - Overview of international and European committees and standards related to:
    - Sustainable mobility concepts (e.g. ISO/TC 268/SC 2)
    - Technologies such as intelligent transport systems (e.g. ISO/TC 204, ETSI TC ITS, CEN/TC 278)
    - Alternative energy vehicles (e.g. ISO/TC 22/SC 37)
- **National standardization efforts**

Target audience

Industrials, SMEs, start-ups, distributors, regulators and researchers.

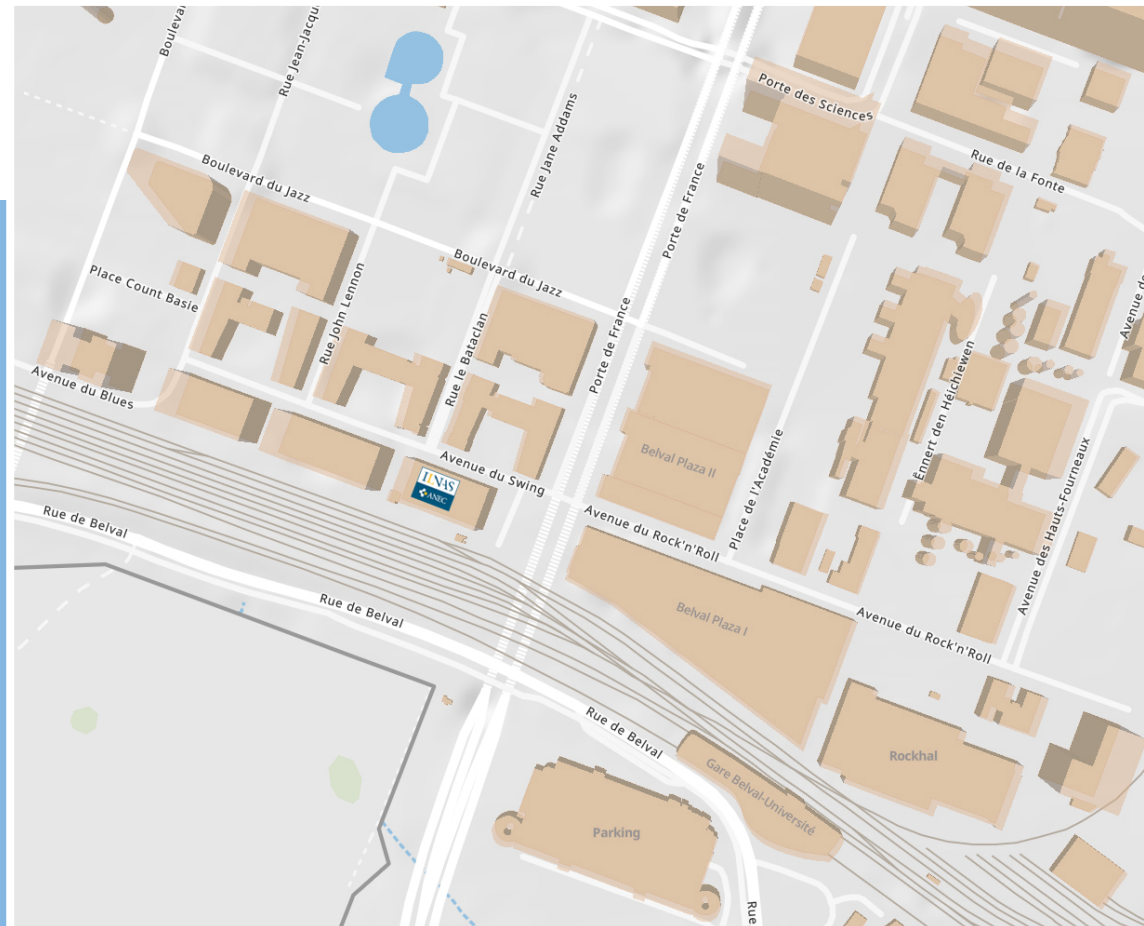
| Details                                                                                                            |                 |                                                                    |            |
|--------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------|------------|
| <ul style="list-style-type: none"><li>• <b>Duration:</b></li><li>• <b>Place:</b></li><li>• <b>Price:</b></li></ul> | 1h              | <ul style="list-style-type: none"><li>• <b>Date:</b></li></ul>     | 15/10/2026 |
|                                                                                                                    | ILNAS' premises | <ul style="list-style-type: none"><li>• <b>Language:</b></li></ul> | EN         |
|                                                                                                                    | free-of-charge  | <a href="#">Registration</a>                                       |            |



## Informations / Information

L'ILNAS et l'ANEC GIE sont situés à 20 km de la ville de Luxembourg, à Esch-Belval.

ILNAS and ANEC GIE are located 20 km from Luxembourg City, in Esch-Belval.



## Adresse / Address :

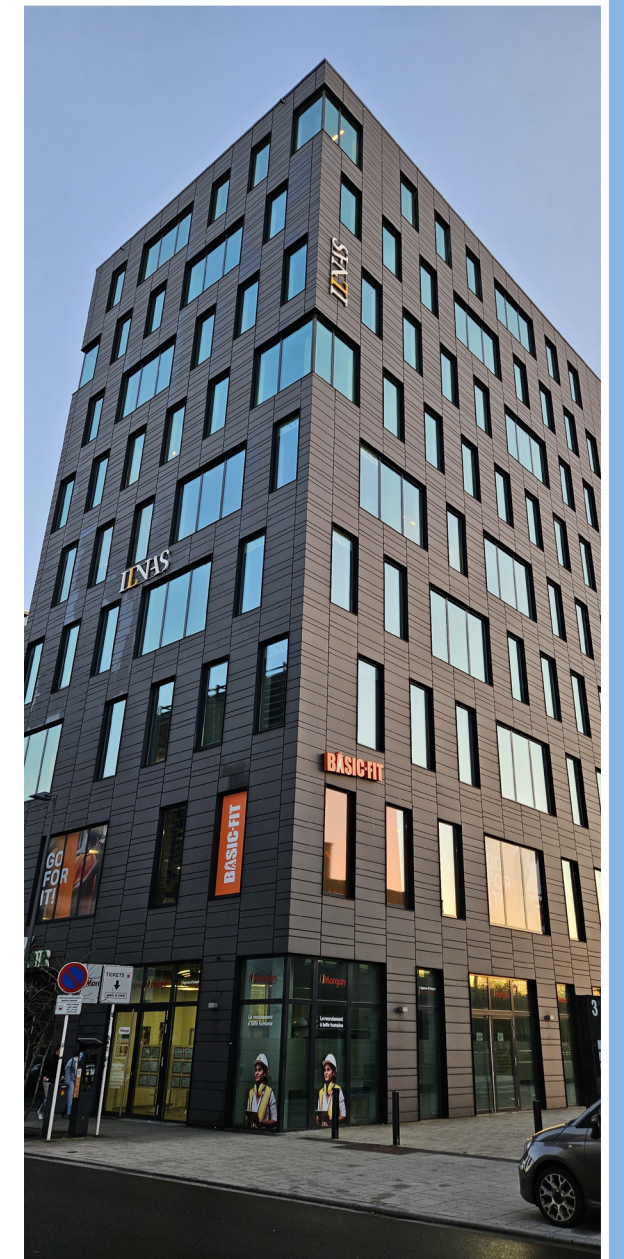
**ILNAS & ANEC GIE**  
Southlane Tower I  
1, avenue du Swing  
L-4367 Belvaux (Esch-Belval)

**GPS : 49.501351, 5.943468**

## Parkings :

- Centre commercial / Shopping center  
Belval Plaza
- P+R Belval-Université

**Train : Belval-Université**



## Conditions générales

### ACCÈS

Seules les personnes actives au sein d'une organisation, entreprise ou association basée au Luxembourg peuvent suivre nos formations/sensibilisations gratuites.

### ANNULATION

Si le nombre de participants est insuffisant ou si le formateur est absent, nous nous réservons le droit d'annuler la formation/sensibilisation et de la reporter à une date ultérieure. Tous les participants seront informés individuellement.

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<https://portail-qualite.public.lu/fr/support/aspects-legaux.html>

### CERTIFICATS

A la fin du cours, chaque participant reçoit un certificat de participation.

## General terms and conditions

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All our free of charge trainings/awareness sessions are only available to people who work for an organization, a company or an association located in Luxembourg.

### CANCELLATION

If the number of participants is not sufficient or if the trainer is absent, we reserve the right to cancel a training/awareness session and to postpone it to a later date. All registered participants will be informed personally.

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<https://portail-qualite.public.lu/fr/support/aspects-legaux.html>

### CERTIFICATES

At the end of every course, each participant receives a certificate of participation.

## Inscriptions / Registrations

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Des formations intra-entreprises peuvent être organisées  
sur demande.

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In-company training can be organized on request.