

TÜVNORD

TÜV NORD CERA 4in1 Performance Standard (CPS)

Get certified and prove your
ESG-compliance in mining,
processing, smelting, and refining

TÜV®

Inspired by
Knowledge

TÜVNORDGROUP





Proving ESG-compliance for all mineral raw materials, worldwide

A vision becomes reality: the vision to **increase worldwide sustainability** and reliability of critical raw material tracking. Through the transparency of complex value chains, we enable companies to obtain **certification from exploration to the final product for all raw materials used**.

The first step towards realizing this vision is done: After a phase of diligent developing and testing, the TÜV NORD CERA 4in1 Performance Standard (CPS) is the first completed standard of a four-step certification system that has reached market maturity.

What is the TÜV NORD CERA 4in1 Performance Standard (CPS)?

The **TÜV NORD CERA 4in1 Performance Standard (CPS)** is one of four standards of the certification scheme CERA 4in1 and **covers the areas mining, processing, smelting, and refining**.

It is the perfect solution for **companies of all sizes worldwide** to meet ESG requirements (Environmental & Social Responsibility and Corporate Governance) for all mineral raw materials in a structured and step-by-step approach. A general set of standard criteria and its individual guiding document for implementation, the audit check list customized to each organization, ensure that companies are not overburdened in the process of compliance while appropriately taking all ESG requirements into account.

The CPS certifies a facility (e.g. mine site) or sequence of operations (e.g. mine site and processing plant). It defines a set of minimum criteria, which every operation in the upstream supply chain must fulfill. The individual aspects of the respective minerals or processes are considered in specific implementation details and are being reflected in the audit check lists.

CPS is the first step of a bigger universal certification system: TÜV NORD CERA 4in1.

Get certified now to prove your ESG compliance.
Our experts are happy to assist you:

DR. ANDREAS HUCKE
TIC Manager CERA 4in1
ahucke@tuev-nord.de

MARTIN SAALMANN
Head of Department Supply Chain Services
msaalmann@tuev-nord.de



ESG requirements at a glance



ESG-compliance

- reduces supply chain risks and insurance costs
- improves the company's image, community involvement and stakeholders expectations

Become a trusted partner and prove your ESG compliance through certification!

ESG is key – the new success factor in the mining sector

It is undeniable, that the demand for a universal certification standard is growing. The primary reason here is the **increasing importance of ESG** principles: Environmental and Social Responsibility and Corporate Governance.

The growing demand of consumers for sustainable products is reflected in an increasing number of international legislations that started incorporating ESG principles. This affects the entire value chain of the mining sector and creates new challenges for every stakeholder.

ESG compliance is a competitive advantage and the key to long-term success in the mining sector. It is already a standard requirement in the mining sector with major consequences for companies that do not fulfill ESG criteria in their daily business: Reduced sales, loss of reputation and difficulties in finding investors are most likely the expected consequences.

Companies, on the other hand, that can prove their ESG compliance to investors, shareholders, customers, business partner, governments, employees, and society via certification, e.g. TÜV NORD CERA 4in1, will become a trusted and responsible partner. Thus, certified companies will be more attractive for investors and customers, will be able to obtain and maintain their social license to operate, to maximize stakeholder value and organizational performance and in the end will produce more valuable products with long-term better margins.

ESG compliance is **THE essential market requirement** of today and for the future. It has become a must-have and the key factor that determines success or failure on the market.

Now available: TÜV NORD CERA 4in1 Performance Standard (CPS)

TÜV NORD CERA 4in1 Performance Standard (CPS) covers the areas of **extraction until refining** and offers all stakeholders in this field a straightforward and uncomplicated solution to meet all ESG requirements. The **well-structured step-by-step approach** and **individual audit check lists** prevent a company overload.

Benefits of CPS

- **Cost reduction:**
efficient production, reduced costs for environmental and social damages, reduced insurance costs
- **Increased attractiveness for investors/partners/clients:**
competitive advantages, access to unique markets
- **Improvement of brand image:**
positioning as more sustainable and responsible partner
- **Risk minimization:**
social license to operate, ensured credibility for stakeholders, reduced supply chain risks
- **Legal certainty:**
preparation for legal compliance, acting as reliable business partner



The CPS certification process

Companies entering the CPS certification process can rely on a **well-designed, holistic certification standard**. It covers the **complete scope** and ensures a certification for:

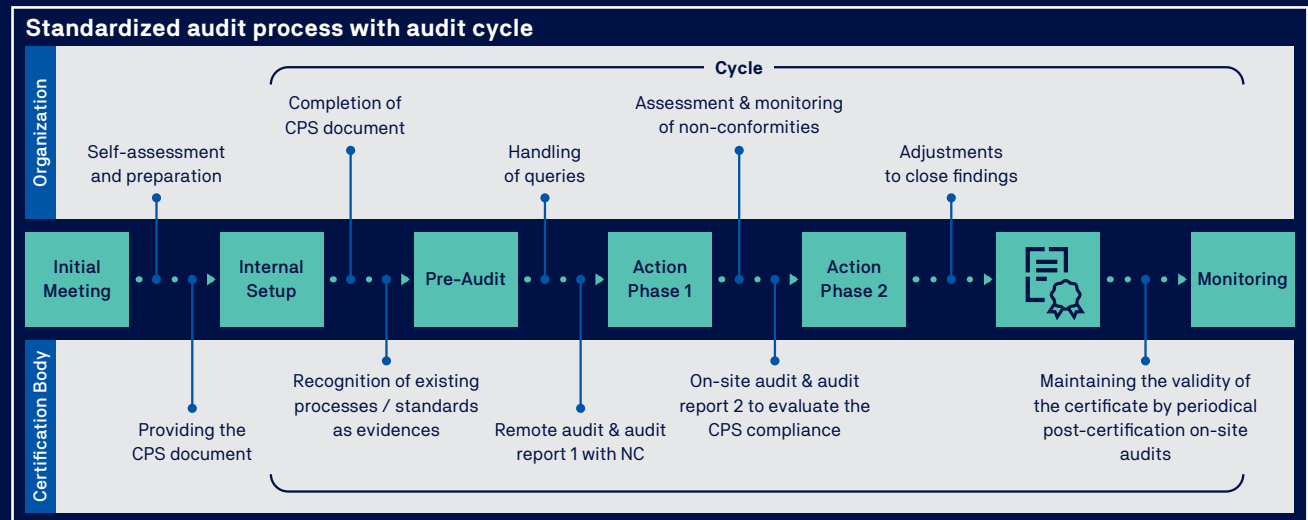
- all sizes of enterprises
- all locations
- all mineral raw materials

Moreover, companies benefit from the **structured certification process** that avoids overburdening the companies in the certification process through:

- a step-by-step implementation of standard requirements considering the ISO 9001 and 5-step OECD Due Diligence Guidance
- a standardized audit process according to ISO 19011

The standardized CPS audit cycle

During CPS certification you can rely on a **well-designed and structured certification process**. The **step-by-step audit cycle** avoids overburdening your company in the audit process and during implementation of corrective actions:



Your route to **certification** according to **CPS**



Get certified and increase your attractiveness in the market!

TÜV NORD CERA 4in1 – Overview of the entire certification system

Existing standards cover part of the value chain or certain mineral raw materials, putting companies into a confusing and fragmented market situation. TÜV NORD CERA 4in1 is the first (and so far) only certification concept that provides proof of ESG-compliance along the entire value chain: from exploration through extraction and processing up to the final products. The biggest advantage that TÜV NORD CERA 4in1 offers is that it targets **all kind of minerals, everywhere in the world** and is applicable to **any size of enterprise**.

With TÜV NORD CERA 4in1 Performance Standard (CPS) being the first standard of this four-step solution that has been launched to the market and with three more standards to come in 2024/2025, TÜV NORD CERA 4in1 can be used as **universal (ESG) system for the mineral raw materials sector** and aims to be the leading standard in Europe for responsibility in mining.

Current maturity level and schedule of planned market launches of TÜV NORD CERA 4in1

Value chain

Exploration & development	Extraction & processing	Supply chain	End products
 CERA4in1 <small>CERTIFICATION OF RAW MATERIALS</small> Readiness Standard CRS	 CERA4in1 <small>CERTIFICATION OF RAW MATERIALS</small> Performance Standard CPS	 CERA4in1 <small>CERTIFICATION OF RAW MATERIALS</small> Chain of Custody Standard CCS	 CERA4in1 <small>CERTIFICATION OF RAW MATERIALS</small> Final Product Standard CFS
Time-to-market ~Q2.2024	Launched in Q1 2024	Time-to-market ~Q4.2025	Time-to-market ~Q4.2025

Overview of the CERA 4in1 standards

CERA 4in1 Readiness Standard (CRS) covers the (pre-)investment and exploration phase until the operating stage of a project. It defines criteria for the standardized evaluation of exploration projects according to social, environmental, and economic (ESG) aspects.

CERA 4in1 Performance Standard (CPS) for upstream defines the ESG requirements for a production facility or a group of production facilities that cover the operations of mining, processing, smelting, and refining. **For downstream (CPS-II)** it defines the ESG requirements for a manufacturer and covers the manufacturing of semi-final products.

CERA 4in1 Chain of Custody Standard (CCS) applies to traded commodities and defines criteria for ensuring appropriate management systems for the traceability of responsibly sourced minerals, commodity-specific accounting methods, and chain of custody (CoC) material eligibility. This standard will ensure that all stakeholders in the supply chain meet the basic legal requirements concerning responsible sourcing and procurement.

CERA 4in1 Final Product Standard (CFS) establishes the criteria necessary to label consumer goods, empowering consumers to make well-informed decisions. It defines the necessary certification requirements for the supply chain of the final product, enabling consumers to distinguish certified from uncertified products.

The development of TÜV NORD CERA 4in1

The CERA 4in1 project has been in development since 2015 by TÜV NORD GROUP: by its experts in certification TÜV NORD CERT and in mining DMT GROUP. In 2017 a formal project consortium, partly funded by the European Union via the EIT Raw Materials, was formed and took care of the further development. The project consortium and its partners has been drawn from Europe's leading raw materials research institutions, academia, as well as engineering and consulting service providers. In 2021, the project was completed with draft versions of the certification system and the CPS standard. From 2021 to 2023, the certification system and the CPS were developed to market maturity by TÜV NORD GROUP and introduced to the market in January 2024. Since 2023, the ongoing development of the other three standards takes place within the EU-funded research consortium MaDiTraCe (<http://www.maditrace.eu>). The market launch of these standards is scheduled for 2024 to 2026.



Supported by



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or EISMEA. Neither the European Union nor the granting authority can be held responsible for them.

Contact us now

If you have any further questions, would like a detailed, individual exchange, or apply for certification do not hesitate to contact us! Our experts are looking forward to helping you.

DR. ANDREAS HUCKE
TIC Manager CERA 4in1



ahucke@tuev-nord.de

MARTIN SAALMANN
Head of Department Supply Chain
Services



msaalmann@tuev-nord.de

Find more information regarding the TÜV NORD CERA 4in1 certification system here:

TÜV NORD CERA 4in1
Performance Standard



TÜV NORD CERA 4in1
Certification System







TÜVNORD

Inspired by
Knowledge

TÜV NORD CERT

Am TÜV 1

45307 Essen

T 0800 245-7457

F 0511 9986 69-1900

tuev-nord-cert.com

TÜV®

Stand 12/2023

TÜVNORDGROUP