Suitability assessment: systematically evaluating suppliers and services for fitness

The suitability assessment is the systematic process by which procurement organisations determine, before awarding a contract, whether a supplier or service can meet the specified technical, commercial and compliance requirements. It covers the assessment of the supplier's quality, capacity, financial strength and processes, and, where applicable, samples or trial orders. For technical buyers, it is a central element of risk management and supplier selection.

As of October 2026 · amplifa-marketplace.ai/en/glossary/eignungspruefung

Key facts at a glance

01 The suitability assessment examines the technical, commercial, logistical and legal criteria of a potential supplier before the first award.

02 In practice, a distinction is made between self-declaration, document review, on-site audit, sample production and trial order as assessment methods.

03 The outcome of the suitability assessment is often approval for a supplier network or inclusion in an internal Approved Vendor List (AVL).

04 Typical criteria include certifications, capacities, delivery reliability, financial figures and compliance requirements.

05 The assessment should be embedded in the phases of the procurement process and updated regularly.

06 A structured supplier rating builds directly on the results of the suitability assessment.

Definition: suitability assessment

The suitability assessment is the review carried out before an award or contract placement to determine whether a potential supplier or an offer can meet the defined requirements for quality, capacity, delivery reliability, compliance and price. It is part of supplier selection and risk management

in the procurement process. In practice, its scope ranges from a document review to on-site audits and trial orders.

Distinction from qualification

Suitability assessment and supplier qualification are often used synonymously, but they differ in scope: the suitability assessment evaluates in principle whether a supplier can theoretically meet the requirements. Qualification in the stricter sense additionally includes practical demonstration, for example via samples, First Article Inspection or a trial order. In many companies, both steps merge into a two-stage process: first, document-based screening of potential candidates, then practically qualified final selection.

Use cases in B2B procurement

The suitability assessment comes into play in several situations: when onboarding new suppliers for series or individual parts, when awarding contracts as part of an open procedure or an RFX in procurement, when switching suppliers due to capacity or price problems, and when building alternative sources as part of a risk mitigation strategy. A structured suitability assessment is also a prerequisite for proof of concept procurement of innovative technologies before investments are made in ramp-up and tooling.

Legal framework

In public procurement, the suitability assessment is anchored in law: the contracting authority assesses the personal and professional suitability of bidders, typically based on references, professional liability insurance, qualification evidence and reliability certificates. In private-sector B2B procurement, this formal obligation does not exist, but product liability, supply chain laws and customer requirements result in a comparable level of scrutiny in practice. Formulations regarding rights and obligations arising from assessments should always be legally reviewed on a case-by-case basis.

Criteria catalogue: what matters in the assessment

A good criteria catalogue is weighted, practical and industry-specific. It covers the supplier's overall performance profile – not only the unit price, but also logistics, sustainability and supply chain dependencies.

Technical and quality criteria

The focus is on process competence, machinery, depth of manufacturing, production quality and certified management systems such as ISO 9001 or IATF 16949. Complaint rates, process capability indices and the ability to perform first article inspections are also important. A Supply Chain Carbon Footprint (SCF) is gaining increasing weight in customer requirements and should be documented as an evaluation criterion.

Commercial and logistical criteria

Financial figures such as liquidity and equity ratio, price transparency under open-book costing, and terms such as minimum order quantity (MOQ) and offered lot sizes must be reviewed. From a logistics perspective, delivery reliability commitments, lead times, transport risk in international procurement and integration into the supplier network are relevant. Anyone weighing spot purchase vs. frame agreement should evaluate suitability for both procurement modes separately.

Compliance and risk criteria

This includes anti-corruption policies, supply chain due diligence obligations, export control, data protection as well as the analysis of critical upstream products and relocation risks. The evaluation determines whether a risk mitigation plan with alternative suppliers and dual sourcing is required. The results later feed into the supplier rating and form the basis for factory visits and audits.

Methods and procedure of the suitability assessment

In practice, the assessment proceeds in stages: the higher the procurement volume and the more critical the component, the deeper the assessment goes. A graduated approach saves time and avoids unnecessary audits for non-critical service providers.

Stage 1: Self-declaration and document review

Common practice is a self-declaration questionnaire, supplemented by certificates, reference lists, bank and financial information. The buyer cross-checks the information against independent sources such as credit agencies or commercial registers. In public tenders, evidence is frequently provided via standardised forms such as the European Single Procurement Document (ESPD). This stage acts as a coarse sieve and reduces the number of candidates to be assessed to a shortlist.

Stage 2: Audit, samples and trial order

For critical products, an on-site or remote audit follows, typically based on VDA 6.3 or internal standards. Manufacturing processes, process cost accounting as the basis for price transparency, as well as production control and measuring instrument availability are reviewed. For series parts, this is typically followed by sample production with a first article inspection report; alternatively, a limited trial order has proven effective, the results of which also serve as the basis for a Safe Launch before volumes are released.

Stage 3: Decision, approval and follow-up

The evaluation culminates in a documented decision: approval with conditions, conditional approval or rejection. Upon approval, the supplier is added to the supplier network or the Approved Vendor List and a frame agreement or blanket order is negotiated; targeted negotiation techniques are helpful here. Contractual elements such as limitation of liability, delivery clauses and procedures for monitoring delivery reliability also need to be clarified. Results are updated periodically.

Key KPIs and evaluation methods

A suitability assessment only becomes measurable through consistent evaluation. Point systems with weighted criteria have proven effective in practice, supplemented by operational metrics that are continuously collected once the supplier has been onboarded.

Weighted scoring model

Buyers frequently work with a 100-point model: technical competence and quality roughly 30–40 points, logistics and delivery reliability 20–25, price and costing 20–25, financial strength and compliance 10–20. Threshold values such as "at least 70 points, no criterion below 60%"

Risks, controls and typical mistakes

The suitability assessment determines the quality and risk of the entire procurement. Typical errors include superficial reviews under time pressure, deliberate skipping of checks, incomplete documentation and lack of sustainability in monitoring.

Typical sources of error

Certificate status is often confused with actual process quality: an ISO certificate is no guarantee of a stable process. A second risk is dependence on single sources without defined alternatives; here, an assessment of supply chain risks in the sense of an SCF analysis is recommended. Price comparisons without traceable costing also lead later to savings leakage – savings that were booked but never realised.

Controls and governance

Important elements include the four-eyes principle for approval decisions, documented assessment steps and defined periodicity for requalification, typically every two to three years or on a case-by-case basis. For critical parts, escalation paths and recall processes should be defined. A supplier rating that supplements the suitability assessment with ongoing performance data is supportive, enabling continuous monitoring instead of a one-off check.

Current developments: digitalisation and sustainability

Suitability assessments are changing: standardised platforms, AI-supported document analysis and digital supplier selection are increasingly replacing manual processes. At the same time, sustainability and supply chain issues are significantly expanding the criteria catalogue.

Digital assessment tools and standardisation

Many companies rely on standardised online questionnaires and document repositories, which offer audit security and easier updates. AI-supported analysis makes it possible to draw early warning signals from unstructured sources such as news, registers and certificate databases. Linking this with a systematic supplier rating makes it possible to generate a dynamic picture from the suitability

assessment and operational performance.

Sustainability, supply chain and resilience

The supply chain due diligence approach makes sustainability and human rights risks a fixed component of the suitability assessment. Assessments include CO2 accounting of the supplier in the sense of a Supply Chain Carbon Footprint (SCF), sourcing according to risk criteria and geographical diversification. Resilience is increasingly being treated not only as a goal but as an assessable criterion: dual sourcing, inventory strategies, flexibility in lot size according to Andler, contractual adjustments and responsiveness in ramp-up scenarios.

Typical metrics

Metric	Typical value
On-Time Delivery (OTD)	> 98% *typical benchmark for qualified suppliers in series production*
Complaint rate	< 0.5% *commonly used target figure for series parts in practice*
Suitability score points	> 70 out of 100 *common threshold for supplier approval*
Lead time adherence	> 95% *proportion of orders delivered on time as promised*

Practical example

A medium-sized mechanical engineering company is looking for a supplier of precision-milled components for a new production programme. Before the contract is awarded, the potential supplier undergoes a structured suitability assessment.

- Stage 1: Questionnaire and documents – certificates, references, financial figures and capacity overview are evaluated; five of twelve candidates are eliminated.
- Stage 2: On-site audit – manufacturing processes, process cost accounting and production control are reviewed; one supplier falls off the shortlist due to outdated equipment and insufficient measuring instruments.
- Stage 3: Trial order and Safe Launch – samples are produced by the remaining two suppliers; defect rates and delivery reliability are documented.
- Stage 4: Approval and frame agreement – the best supplier is added to the Approved Vendor List; in parallel, a frame agreement with clear limitation of liability and defined on-time delivery targets is concluded.

Conclusion

The suitability assessment is more than a formal act before contract award: it forms the foundation for quality, delivery reliability and long-term partnership in the procurement environment. Those who structure it, document it and update it regularly reduce risks, accelerate future tenders and create the data basis for a sound supplier rating. What matters is the balance between thoroughness and efficiency – not every supplier needs a full audit. In practice, it has proven effective to align the depth of assessment with the criticality level of the product. This turns the suitability assessment from compliance paperwork into a genuine lever for competitiveness and supply chain security.

Frequently asked questions

? What does a suitability assessment include?

A suitability assessment typically covers technical competence and certifications, financial indicators, logistics performance such as on-time delivery and capacity, and compliance aspects. Depending on the criticality of the product, on-site audits, sample production and trial orders are added. The criteria should be weighted and transparently documented.

? How does a suitability assessment differ from supplier qualification?

The suitability assessment evaluates in principle whether a supplier can meet the requirements, often based on documents and self-declaration. Supplier qualification goes one step further and includes practical demonstration such as samples, audits and trial orders. In practice, the two steps often merge into a two-stage process.

? How does a suitability assessment work under public procurement law?

In public procurement, the contracting authority assesses the personal and professional suitability of bidders against defined criteria such as references, professional liability insurance, personnel qualifications and proof of reliability. Standardised forms such as the European Single Procurement Document (ESPD) are frequently used. The specific evidence required results from the procurement procedure and should be legally reviewed on a case-by-case basis.

? How long does a typical suitability assessment take?

This depends heavily on complexity and criticality. A document review for non-critical C-parts can be completed within a few days. For critical A-parts involving an audit, sample phase and first article inspection, it typically takes several weeks to months in practice.

? Which metrics help in evaluating suppliers?

Key metrics are On-Time Delivery (OTD), complaint rate, capacity utilisation, lead time and financial stability. In addition, scoring models provide an aggregated overall assessment. Once the supplier has been onboarded, these values should be continuously tracked in the supplier rating.

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