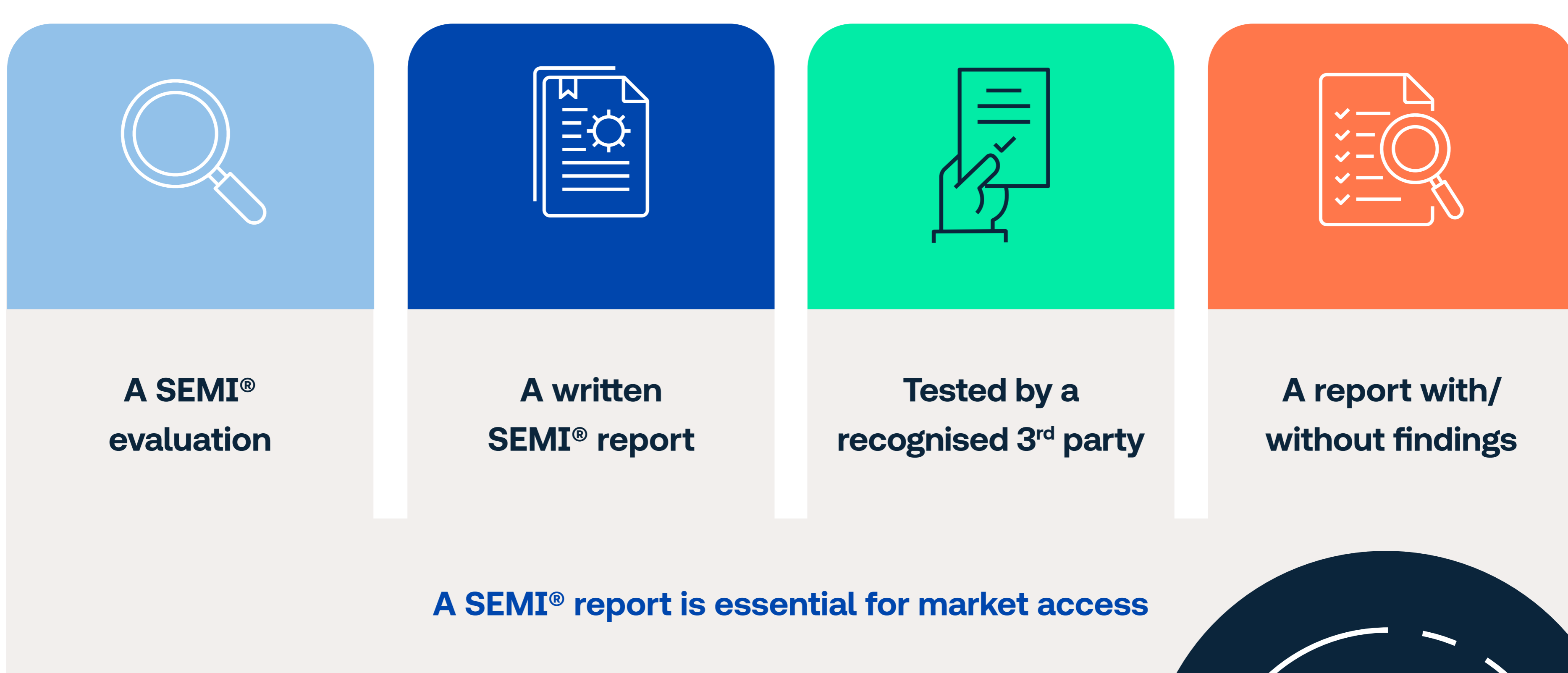




A complete SEMI® testing service from a single source.

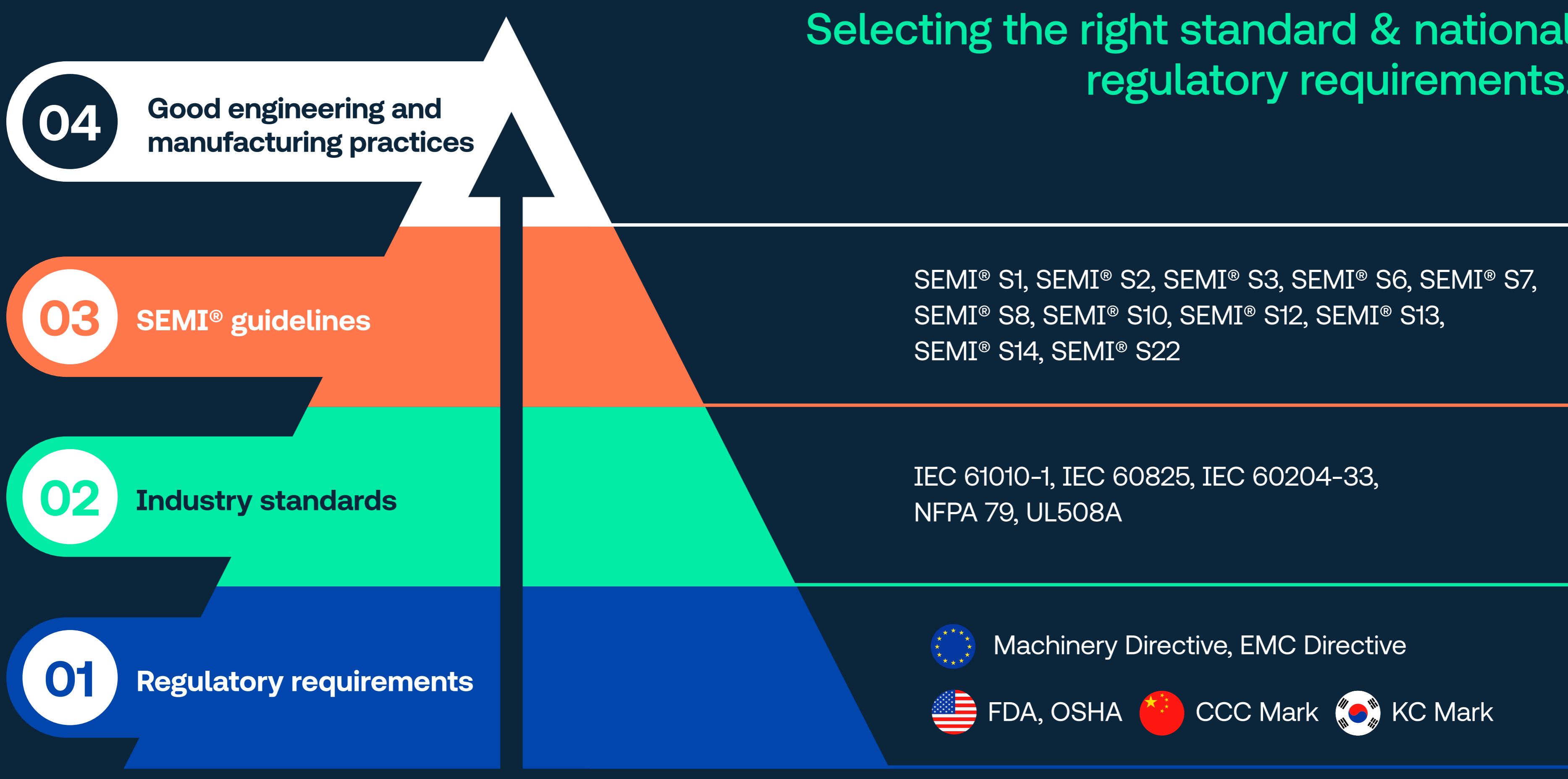
The semiconductor industry is driven by rapid technological innovation, including new materials, device structures, fabrication processes and integrated circuit designs. As the industry becomes more complex, so do the safety requirements for semiconductor products and manufacturers must continually adapt to remain competitive.

End customers require



SEMI® S2 safety philosophy

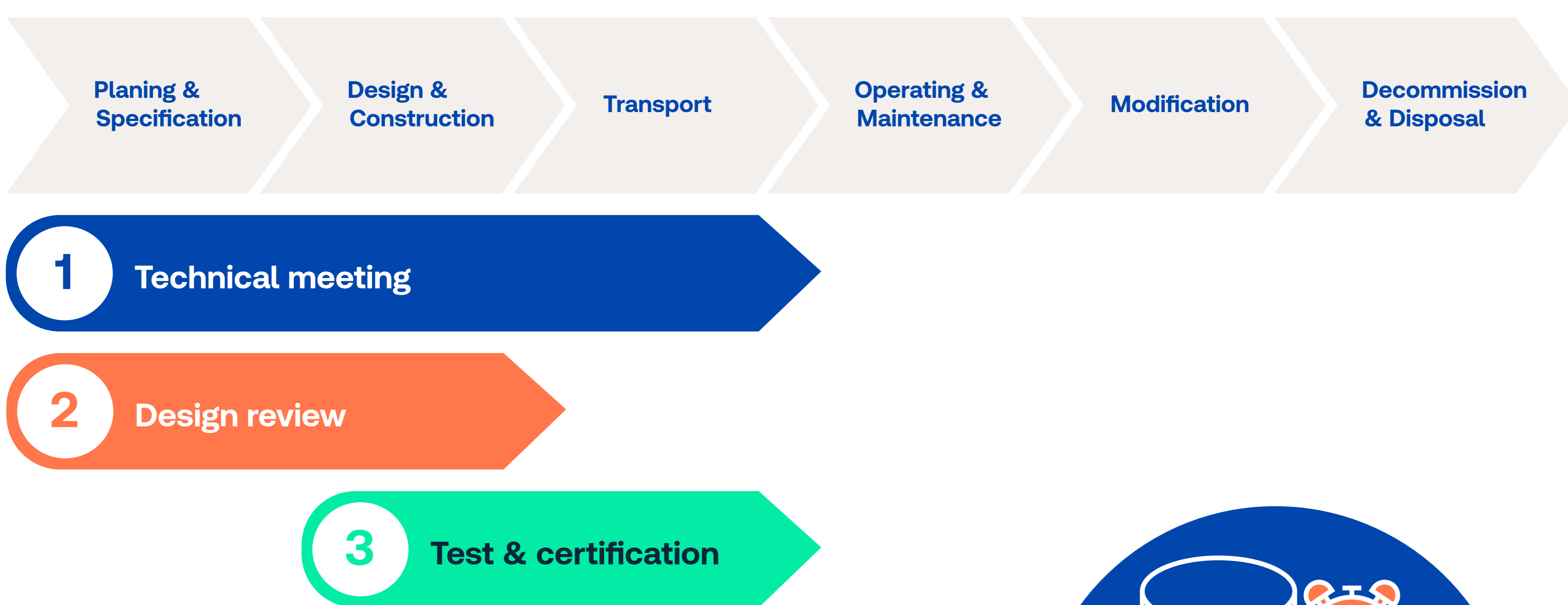
The safety philosophy prioritises the elimination or control of hazards throughout the equipment lifecycle, assuming operators, maintenance and service personnel are properly trained. Design and construction considerations include compliance with regulatory requirements, industry standards, the provided safety guide, and sound engineering and manufacturing practices.



In addition to SEMI® S2, there are other SEMI® safety guidelines. | Different standards can often be applied to the same product. Component selection & design can differ significantly between standards. | Extract from all available standards.

Product development life cycle

Our comprehensive SEMI® testing service supports you throughout the entire product lifecycle.



Your benefits from working with TÜV SÜD

- Our SEMI® services help to address compliance requirements.
- TÜV SÜD's test reports and certifications are globally recognised - synonymous with quality & safety.
- Cost-effectively address SEMI® testing service.

Save money and time right from the planning phase without neglecting safety requirements.

Reach your goal in 3 steps

Step 1	Step 2	Step 3
<p>Technical meeting</p> <p>Our experts review your project on site (either the identical machine or CAD plan).</p> <ul style="list-style-type: none"> • Definition of applicable directives, standards and guidelines • Determination and milestones of the audit • Determination of the required documents 	<p>Design review</p> <p>We help you minimise costs by reviewing your technical documents.</p> <ul style="list-style-type: none"> • Manual • Circuit diagram • Seismic calculation • Safety concept and interlock matrix • Fire risk assessment • Risk assessment • List of critical components LOCC/CDF 	<p>Test & certification</p> <p>TÜV SÜD offers the complete testing service from a single source.</p> <ul style="list-style-type: none"> • Machine tests <p>Electrical test, e.g.:</p> <ul style="list-style-type: none"> - Dielectric test - Input test - Protective bonding test <p>Test & verification of safety functions, e.g.:</p> <ul style="list-style-type: none"> - Access doors, light curtains, scanners - Robots - Emergency off <p>Ergonomic test:</p> <ul style="list-style-type: none"> - SEMI® S8 tasks

Related services

TÜV SÜD provides the following related services

- Tracer gas testing
- Laser classification
- Cleanroom classification
- ATEX
- Robots/UTVs

Our aim is to minimise testing time and ensure product conformity.

Add value. Inspire trust.