

MASTERY THROUGH CONSISTENCY: BUILDING A FUTURE WITH INTENTIONAL GROWTH

ENVITEST LABORATORIES PRIVATE LIMITED

The Path to Mastery: Steady Growth and Purposeful Leadership



At Envitest Lab, we embrace this ethos to foster resilience, sharpen intellect, and lead with intentionality. This timeless principle resonates deeply across disciplines, emphasizing that sustained effort outweighs bursts of brilliance. Whether in personal growth, skill-building, or organiza-

tional success, the key to excellence lies in cultivating a mindset focused on regularity, precision, and incremental progress.

True mastery thrives on consistency. It's tempting to believe that success is born in extraordinary moments of exertion, but the reality is more understated. The marathon runner's strength doesn't come from a single sprint but from months of regular, disciplined training. Similarly, at Envitest Lab, our achievements are not the result of one-off efforts but are built on steady, methodical actions. By committing to daily excellence, we ensure that progress becomes a habit, not a chance occurrence.

For individuals and organizations alike, regu-

larly creates momentum. It builds a foundation of trust, reliability, and discipline. At Envitest, we work steadily toward innovation and quality, ensuring our services consistently meet the high standards our partners and stakeholders expect.

Envitest Lab progress over perfection. We understand that learning and growth are continuous processes. By embracing challenges, reflecting on experiences, and adapting, we ensure that each step brings us closer to our goals. This mindset fosters resilience, empowering our team to overcome obstacles with confidence and creativity. The commitment to precision, and progress defines our vision at Envitest Lab.

Special points of interest:

- Envitest Lab had a prominent stall at the **Auto EV Expo 2024**, showcasing its advanced testing capabilities and engaging with industry professionals.
- Successfully completed a **vibration test** on an **automotive pneumatic valve** under pressure, demonstrating our expertise in handling complex automotive components.
- Achieved a significant milestone by completing multiple tests on **Environmental Stress Systems (ESS)** in record time, further reinforcing our efficiency and commitment to meeting tight project timelines.

Progress Over Perfection

Perfection is an elusive ideal, often paralyzing organizations with unrealistic expectations. Progress, however, is attainable, tangible, and transformative. Mastery is not about achieving flawlessness; it's about striving for improvement every day. In a fast-paced world, speed is cele-

brated, but precision is the hallmark of expertise. Rushing through tasks may yield quick results, but it often compromises quality. Mastery, on the other hand, demands attention to detail. It requires patience to refine processes, ensuring that every step aligns with the desired outcome.

At Envitest Lab, we value precision over rush. Whether analysing complex data, managing regulatory requirements, or delivering solutions, our approach is deliberate and meticulous. We recognize that excellence is not achieved by cutting corners but by perfecting the fundamentals.

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Testing for durability and reliability of an automotive component at Envitest Lab.

With our comprehensive testing services and commitment to excellence, we are prepared to drive automotive reliability forward, ensuring that your electrical and electronic systems meet the rigorous demands of modern vehicles.

Driving Reliability: Envitest Lab's Expertise in ISO 16750 Testing

The automotive industry is rapidly evolving, driven by the need for more advanced, efficient, and reliable electrical and electronic systems in modern vehicles. These systems are integral to a vehicle's performance, safety, and overall functionality. However, ensuring their reliability under a wide range of environmental conditions is crucial. To meet these challenges, ISO 16750, a globally recog-

nized standard, offers a comprehensive framework for testing electrical and electronic components in vehicles. This standard provides critical guidelines to ensure that automotive systems can withstand the harsh conditions they will face in real-world environments.

Envitest Lab is committed to supporting the automotive industry in its pursuit of innovation, safety, and sustainability. Our testing

services help clients create reliable, long-lasting systems that can withstand diverse operating environments. As the automotive landscape continues to evolve with new technologies, our expertise ensures that systems are future-ready and capable of meeting emerging challenges head-on.

If you're looking for a trusted partner in ISO 16750 testing, Envitest Lab is here to help.

What is ISO 16750?

ISO 16750 is a set of standards that outlines the testing requirements for electrical and electronic systems in vehicles, to meet high-performance criteria. The standard is divided into five parts:

General Requirements (ISO 16750-1): Defines the overall testing guidelines.

Electrical Loads (ISO 16750-2): Focuses on elec-

trical stresses, such as voltage fluctuations and transient interference, that systems may encounter.

Mechanical Loads (ISO 16750-3): Assesses a system's ability to withstand physical stresses like vibration and shock.

Climatic Loads (ISO 16750-4): Evaluates the system's performance under varying temperatures, humidity,

and weather conditions.

Chemical Loads (ISO 16750-5): Tests the resistance for exposure from chemicals, such as oils, fuels, and cleaning agents commonly found in automotive environments.

The guidelines ensure automotive systems are robust, reliable, and capable of performing in demanding real-world conditions.



Comprehensive ISO 16750 Testing for Automotive Systems

At Envitest Lab is fully equipped to conduct ISO 16750 testing, providing our clients with the assurance that their automotive systems will meet the highest industry standards. We understand that testing is not only about compliance but also about ensuring the durability and performance of systems under varied and challenging conditions. Our state-of-the-art facili-

ties and expert team allow us to conduct thorough testing across all five parts of ISO 16750, including electrical loads, mechanical stresses, climatic conditions, chemical exposure, and more.

By offering ISO 16750 testing, Envitest Lab plays a role in helping the automotive industry stay ahead of the curve. Our tests ensure that your electrical and

electronic systems are not only compliant but also resilient in the face of environmental stresses such as extreme temperatures, vibrations, and chemical exposures. We simulate real-world scenarios to replicate the challenges these systems will encounter on the road, allowing manufacturers to identify potential weaknesses and address them before reaching the market.

Accurate Wavelength Testing for Gigabyte Optical Interfaces at Envitest Lab

Envitest Lab has full capability to perform the Gigabit Ethernet Optical Interface (SH) test for wavelength as per the performance criteria outlined in IEEE 802.3z, Clause 38.3.1, Table 38-3. This test is crucial for evaluating the wavelength characteristics of 1 Gigabit Ethernet (1 GE) optical transceivers to ensure reliable and efficient data transmission over fiber optic cables. As per the standard, the oper-

ating wavelength of the optical signal must be in the range of 1300 nm to 1320 nm. Ensuring this precise wavelength range is critical for maintaining signal integrity and preventing data transmission errors. A deviation from the specified range could result in signal distortion, data loss, or decreased system performance.

At Envitest Lab, we are equipped with the testing infrastructure required to

accurately measure the wavelength of optical signals in compliance with standards. Our testing procedures ensure that the optical interfaces meet the IEEE 802.3z criteria, validating their performance for optimal data transmission in various fiber optic systems.

Envitest Lab helps optical transceivers are fully compliant and ready for reliable and high speed communications



Envitest Lab is fully equipped to perform the Gigabit Ethernet Optical Interface (SH) test for wavelength, as per IEEE 802.3z, Clause 38.3.1, Table 38-3

Envitest Lab at the Auto EV Expo

Envitest Lab was proud to participate in the renowned AutoEV Expo 2024, a event bringing together pioneers and innovators in the automotive and electric vehicle (EV) sectors. This platform allowed us to showcase our testing capabilities while engaging directly with industry leaders and stakeholders driving the

transition to sustainable mobility.

The expo provided a unique opportunity to interact with customers and understand their needs. These interactions offered insights into the focal points of the industry, including safety, reliability, and innovation. By listening to our customers, we positioned to refine our

strategies and develop the most advanced testing infrastructure to meet future challenges.

At our booth, we highlighted our expertise in critical areas such as performance testing, compliance, and analysis. We shared our methodologies and commitment to align with the industries sustainability goal.

Our participation reinforced our dedication to supporting the automotive industry's transformation. Moving forward, Envitest Lab is committed to building state-of-the-art testing facilities that drive progress and innovation. Together with our partners, we aim to shape a future defined by cleaner, smarter, and more efficient mobility solutions.

Turning Challenges into Opportunities: The Envitest Lab Way

At Envitest Lab, challenges are not obstacles; they are opportunities to innovate, grow, and lead. Guided by the principles of ISO 17025, we continually transform industry demands and operational complexities into catalysts for excellence.

Compliance with ISO 17025 demands rigorous adherence to quality, pre-

cision, and consistency. While these requirements present challenges such as extensive documentation, method validation, and continuous improvement, they also serve as opportunities to refine our processes and enhance operational efficiency. Each step of this journey strengthens our foundation, ensuring we deliver

reliable and accurate results to our clients.

With evolving industry, customer expectations and regulatory requirements, we embraces challenges by proactively adapting to change, fostering a culture of innovation, and leveraging technology to stay ahead. These efforts not only ensure compliance but also inspire trust.



Empowering Products

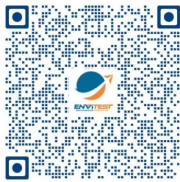
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Our Services

- ◇ Climatic Simulations
- ◇ Dynamics & Vibration
- ◇ Contamination and Ingress
- ◇ Materials / Metallurgical Testing
- ◇ Aircraft Electrical Testing
- ◇ Electrical Safety Testing
- ◇ Optical Fibre Cable Testing
- ◇ Telecom Interface Testing
- ◇ Electrical Cables and Connectors Test
- ◇ International Approvals
- ◇ Customized Tests
- ◇ Engineering Services

About Envitest Lab

WHERE EXCELLENCE MEETS ASSURANCE.

OUR VERTICALS

- TESTING
- CERTIFICATION
- INSPECTION
- ENGINEERING

Working tirelessly behind the scenes to guarantee product success

ENVITEST Lab abbreviated for “ENVIRONMENTAL TESTING”, established in 2017 at Bangalore Electronic City, is a ISO/IEC 17025 certified company with an objective to offer high-quality testing, inspection, pre-compliance, certification, and engineering services for the across the globe products.

We serve across domains products for the compliance and certifications. Over time we kept on add-

ing the new testing facilities to bring more opportunities for growth but would allow to provide a more complete portfolio of testing solutions to our customers. From our humble beginnings, we have grown from a simple test house who worked on the world’s most complex engineering projects to become a leading test lab of standard and custom test services. Throughout our journey to become one of the premier worldwide service providers of testing solutions, we have held true to the philosophy that the customer comes first.

Our Disciplines -

Electronics and Electrical Product Test covering Optic fibre, electrical connectors for

automotive and MIL, Aircraft electrical characteristic, Product safety, Product performance, Product susceptibility test.,

Telecom Product Test covering telecom products which covers PON and GPON Test, Interface Test, EMI/EMC test, Router and Switches and many more.

Environmental Test for Any Product covering - Shock and Vibration, Bump, Thermal, Humidity, Damp Heat, Cold Hot temperatures, thermal shock, Ingress protection, dust, water, contamination, fungus, Ultraviolet UV, salt and acidic corrosions and many more.