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Testing, Inspection, and Certification Market by Service Type, Sourcing Type (In-house, Outsourced), Application (Consumer Goods & Retail, Agriculture & Food, Industrial & Manufacturing, Medical & Life Sciences) and Region - Global Forecast to 2029

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Abstracts

The global testing, inspection, and certification market was valued at USD 233.2 billion in 2024 and is projected to reach USD 280.6 billion by 2029; it is expected to register a CAGR of 3.8% during the forecast period. The Testing, Inspection, and Certification market is driven by stringent regulatory requirements, technological advancements like AI and IoT, globalization, focus on quality and safety, sustainability initiatives, emerging markets, digitalization, and industry-specific needs. These factors collectively contribute to the growth and expansion of the TIC market globally.

“The testing segment to hold the largest share during the forecast period.”

Testing services hold the largest share in the Testing, Inspection, and Certification (TIC) market, primarily due to their critical role in ensuring compliance with regulatory standards and quality assurance across various industries. These services are essential for verifying the safety, quality, and reliability of products and processes, ranging from consumer goods to industrial equipment. As regulatory requirements become more stringent and consumer expectations rise, the demand for testing services continues to grow, driving their dominance in the TIC market.

“the in-house sourcing segmetn to record largest market share during the forecast period.”

The dominance of the in-house sourcing segment in the market share is attributed to its

suitability for critical applications, particularly in industries like the public sector and mining, which favor internal testing procedures over outsourced ones. In-house testing affords firms complete control over their processes and facilities, leveraging their core business expertise. Establishing in-house capabilities demands investments in biotechnology, testing equipment, and skilled personnel. Around 60% of testing, inspection, and certification services are conducted internally, notably in sectors such as life sciences, utilities, and public administration. For example, Intertek undertakes internal testing, inspection, and certification for major aerospace firms like Boeing, Airbus, and GE Aviation, ensuring adherence to industry standards with cutting-edge equipment and expertise.

“The medical & life sciences is likely to grow at the highest CAGR during the forecast period.”

The highest growth in the test, inspection, and certification market is anticipated in the medical and life sciences sector in the foreseeable future. As medical technology evolves, there's a heightened demand for TIC services to ensure patient safety. Testing, inspection, and certification are imperative for various medical devices such as implants, diagnostic tools, ophthalmic, orthopedic, dental, and vascular devices to meet international standards, enabling global market access for manufacturers. Evolving regulations, particularly in the medical device domain, compel manufacturers to embrace TIC services for compliance. Key services in this sector encompass biocompatibility, electromagnetic compatibility (EMC), clinical research, and wireless/telemedicine testing, all aimed at guaranteeing device quality and safety. Accreditation from regulatory bodies is a prerequisite for TIC service providers to issue certifications for medical devices to their clients.

“The Europe segment is likely to grow at the second highest CAGR during the forecast period.”

The European market for testing, Inspection, and Certification (TIC) services is experiencing significant growth, primarily attributed to several factors. One key driver is the tightening regulatory landscape across various industries, necessitating compliance with stringent standards and regulations. Additionally, the growing emphasis on quality, safety, and sustainability further fuels the demand for TIC services in the region. The rise of emerging technologies, such as artificial intelligence and IoT, is also contributing to the expansion of the TIC market by enhancing testing capabilities and efficiency. Moreover, increasing globalization and cross-border trade activities are driving the need for international standards compliance, driving the growth of TIC services in Europe.

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These factors collectively contribute to the substantial Compound Annual Growth Rate (CAGR) observed in the European TIC market.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

- By Company Type - Tier 1 – 30%, Tier 2 – 50%, Tier 3 – 20%
- By Designation— C-level Executives - 25%, Directors - 35%, Others - 40%
- By Region—North America - 35%, Europe - 30%, Asia Pacific - 25%, RoW - 10%

The testing, inspection, and certification market is dominated by a few globally established players such as SGS SA (Switzerland), Bureau Veritas (France), Intertek Group plc (UK), Eurofins Scientific (Luxembourg), DEKRA (Germany), T?V S?D (Germany), DNV GL (Norway), T?V RHEINLAND (Germany), Applus+ (Spain), ALS (Australia), T?V NORD Group (Germany), Lloyd's Register Group Services Limited (UK), MISTRAS Group (USA), ASTM (US), Element Materials Technology (UK), and UL LLC (US). The study includes an in-depth competitive analysis of these key players in the testing, inspection, and certification market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the testing, inspection, and certification market and forecasts its size by service type, by sourcing type, application, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the testing, inspection, and certification ecosystem.

Key Benefits to Buy the Report:

- Analysis of key drivers (enforcement of strict regulations to ensure product safety and environmental protection, increasing need for interoperability testing owing to growing adoption of IoT, rising circulation of counterfeit products, increasing focus of manufacturing companies on customer retention). Restraint (lack of uniformity in global TIC standards, high cost of TIC services due to varying standards and regulations across geographies). Opportunity (use of blockchain technology in TIC services, rising adoption of TIC solutions based on advanced technologies). Challenges (slower adoption rate of advanced technologies by small and medium-sized TIC companies)

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the testing, inspection, and certification market.

Market Development: Comprehensive information about lucrative markets – the report analyses the testing, inspection, and certification market across varied regions

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the testing, inspection, and certification market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like SGS SA (Switzerland), Bureau Veritas (France), Intertek Group plc (UK), Eurofins Scientific (Luxembourg), DEKRA (Germany), T?V S?D (Germany), DNV GL (Norway), T?V RHEINLAND (Germany), Applus+ (Spain), ALS (Australia), T?V NORD Group (Germany), Lloyd’s Register Group Services Limited (UK), MISTRAS Group (USA), ASTM (US), Element Materials Technology (UK), and UL LLC (US) among others in the testing, inspection, and certification market.

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Contents

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for asset integrity management services
8.4.2 PROJECT LIFECYCLE SERVICES
8.4.2.1 Manufacturers focus on ensuring integrity, safety, and reliability of industrial facilities to boost demand for project lifecycle services
8.4.3 FINISHED PRODUCT SERVICES
8.4.3.1 Growing concerns for consumer safety and quality of products to lead to adoption of finished product services
8.4.4 CHEMICAL FEEDSTOCK SERVICES
8.4.4.1 Increasing emphasis on safety, quality, and sustainability in chemicals industry to drive segmental growth
8.4.5 OTHER CHEMICAL APPLICATIONS
8.5 CONSTRUCTION & INFRASTRUCTURE
TABLE 32 CONSTRUCTION & INFRASTRUCTURE APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2020 2023 (USD MILLION)
TABLE 33 CONSTRUCTION & INFRASTRUCTURE APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2024 2029 (USD MILLION)
8.5.1 PROJECT MANAGEMENT SERVICES
8.5.1.1 Need to design, construct, and manage buildings and infrastructures efficiently to drive market
8.5.2 MATERIAL SERVICES
8.5.2.1 Imperative to ensure performance of construction materials to drive adoption of material services
8.5.3 CONSTRUCTION MACHINERY & EQUIPMENT SERVICES
8.5.3.1 Growth of construction industry worldwide to drive segment
8.5.4 FACILITIES MANAGEMENT & INSPECTION SERVICES
8.5.4.1 Need to monitor and ensure safety of facilities to boost adoption of facilities management and inspection services
8.5.5 OTHER CONSTRUCTION & INFRASTRUCTURE APPLICATIONS
8.6 ENERGY & POWER
TABLE 34 ENERGY & POWER APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2020 2023 (USD MILLION)
TABLE 35 ENERGY & POWER APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2024 2029 (USD MILLION)
8.6.1 ENERGY SOURCES
8.6.1.1 Need to ensure cost-efficient and safe availability of energy sources to drive demand for TIC services
8.6.1.2 Nuclear
8.6.1.3 Wind
8.6.1.4 Solar

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8.9.7.1 Need to ensure compliance with stringent safety and environmental regulations to drive market
8.9.8 OTHER MINING APPLICATIONS
8.10 OIL & GAS AND PETROLEUM
TABLE 42 OIL & GAS AND PETROLEUM APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2020 2023 (USD MILLION)
TABLE 43 OIL & GAS AND PETROLEUM APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2024 2029 (USD MILLION)
8.10.1 UPSTREAM
8.10.1.1 Increasing exploration and production of oil and gas in challenging environments to necessitate adoption of TIC services
8.10.2 DOWNSTREAM
8.10.2.1 Increasing complexity of downstream operations to propel demand for TIC services
8.10.3 BIOFUELS AND FEEDSTOCK
8.10.3.1 Rising need to control and manage supply chain of biofuels to drive market
8.10.4 PETROCHEMICALS
8.10.4.1 Growing focus on mitigating risks associated with petrochemicals to boost adoption of TIC services
8.10.5 ASSET INTEGRITY MANAGEMENT
8.10.5.1 Rising emphasis on minimizing risks associated with asset failure to augment adoption of TIC services
8.10.6 PROJECT LIFECYCLE
8.10.6.1 Need to enhance operational efficiency and safety across all phases of oil & gas projects to drive market
8.10.7 OTHER OIL & GAS AND PETROLEUM APPLICATIONS
8.11 PUBLIC SECTOR
TABLE 44 PUBLIC SECTOR APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2020 2023 (USD MILLION)
TABLE 45 PUBLIC SECTOR APPLICATION: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY TYPE, 2024 2029 (USD MILLION)
8.11.1 PRODUCT CONFORMITY ASSESSMENT SERVICES
8.11.1.1 Focus on mitigating risks of goods rejection to fuel demand for TIC services
8.11.2 MONITORING SERVICES
8.11.2.1 Need to monitor consignments under customs control and verify due diligence to boost demand for TIC services
8.11.3 VALUATION SERVICES
8.11.3.1 Focus on reducing risk of fraud and building confidence between importers and exporters to boost demand for TIC services

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9.4.6 AUSTRALIA

9.4.6.1 Requirements for food and beverages to pass through hazard analysis schemes to drive market

TABLE 182 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2020 2023 (USD MILLION)

TABLE 183 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2024 2029 (USD MILLION)

TABLE 184 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SERVICE TYPE, 2020 2023 (USD MILLION)

TABLE 185 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SERVICE TYPE, 2024 2029 (USD MILLION)

TABLE 186 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SOURCING TYPE, 2020 2023 (USD MILLION)

TABLE 187 AUSTRALIA: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SOURCING TYPE, 2024 2029 (USD MILLION)

9.4.7 SINGAPORE

9.4.7.1 Implementation of standardized guidelines to decarbonize power sector to facilitate market growth

TABLE 188 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2020 2023 (USD MILLION)

TABLE 189 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2024 2029 (USD MILLION)

TABLE 190 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SERVICE TYPE, 2020 2023 (USD MILLION)

TABLE 191 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SERVICE TYPE, 2024 2029 (USD MILLION)

TABLE 192 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SOURCING TYPE, 2020 2023 (USD MILLION)

TABLE 193 SINGAPORE: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SOURCING TYPE, 2024 2029 (USD MILLION)

9.4.8 THAILAND

9.4.8.1 Rise in telecom operations to boost demand for testing and certification services

TABLE 194 THAILAND: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2020 2023 (USD MILLION)

TABLE 195 THAILAND: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY APPLICATION, 2024 2029 (USD MILLION)

TABLE 196 THAILAND: TESTING, INSPECTION, AND CERTIFICATION MARKET, BY SERVICE TYPE, 2020 2023 (USD MILLION)

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10 COMPETITIVE LANDSCAPE

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

12 APPENDIX

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12.6 AUTHOR DETAILS

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