



TECHNAVIous
Blueprint to Benchmark for Data Centers

TIA-942-C CERTIFICATION

**WHAT ENTERPRISES
MUST KNOW**

In today's digital age, data centers are the backbone of enterprise operations, supporting critical applications and services. Ensuring these facilities meet rigorous reliability, security, and performance standards is non-negotiable. One of the most recognized global benchmarks for data center design and infrastructure is the TIA-942-C certification. Understanding this standard is essential for enterprises aiming to build or maintain resilient, compliant, and future-proof data centers.

What Is TIA-942-C Certification?

The TIA-942-C certification is the latest revision of the Telecommunications Industry Association's standard for data center infrastructure. It provides comprehensive guidelines covering site location, architectural and electrical design, mechanical systems, telecommunications cabling, network infrastructure, and security. This certification enables enterprises to verify that their data centers comply with industry best practices for availability and operational efficiency.

Key Areas Covered by TIA-942-C

- **Site Location and Building Infrastructure:** This addresses environmental, geographical and human threats and the corresponding mitigation if there are any threats, risks or vulnerability.
- **Power Distribution and Redundancy:** Standards for electrical capacity, backup power systems, and redundancy to prevent outages.
- **Cooling and HVAC Systems:** It addresses the cooling infrastructure requirements of both IT and non-IT infrastructure.
- **Telecommunications and Cabling:** Structured cabling requirements supporting scalable and secure network operations.
- **Security Controls:** Physical security measures including access control, surveillance, and perimeter defenses.

Benefits of TIA-942-C Certification for Enterprises

Achieving TIA-942-C certification offers tangible benefits:

- **Risk Mitigation:** Improved resilience against power failures, natural disasters, and security breaches.
- **Operational Consistency:** Standardized design and management practices that reduce downtime and facilitate maintenance.
- **Customer Confidence:** Demonstrated commitment to reliability enhances trust among clients, partners, and regulators.
- **Market Differentiation:** Certification signals leadership in data center excellence, elevating brand reputation.

How to Achieve TIA-942-C Certification

Enterprises typically follow a structured process:

- **Gap Assessment:** Evaluate current facilities against TIA-942-C requirements to identify areas needing improvement.
- **Remediation Planning:** Develop and implement upgrades for infrastructure, security, and operational processes.
- **Audit and Documentation:** Engage accredited auditors to perform detailed inspections and review compliance documentation.
- **Certification Award:** Upon meeting standards, receive certification valid for a specified period, subject to renewal audits.

Key preparation tips include early stakeholder engagement, thorough documentation, and leveraging expert guidance to navigate complex technical standards.



Technavious' Role in TIA-942-C Compliance

Technavious is among a select group of eight globally licensed ANSI/TIA-942 Certification Bodies (CBs), authorised to provide independent data center certification in addition to our full suite of design, engineering, and governance services. Our team of engineers, auditors, and project managers provides end-to-end support—from initial compliance assessments to final certification audits—ensuring timely, vendor-neutral, and cost-effective certification.

Conclusion

For enterprises, TIA-942-C certification is more than a standard—it is a strategic investment in reliability, security, and operational excellence. Partnering with experts like Technavious ensures smooth compliance and positions data centers as resilient foundations for future digital growth.

About Technavious:

Technavious is India's only **Born-in-DC** partner, delivering sustainability-led design, value-driven engineering, and lifecycle support for data centers. With 100+ specialists, 500 MW+ engineered, 50+ global engagements, and 25+ certified facilities, we bring deep multi-disciplinary expertise across planning, design, engineering, testing, commissioning, and compliance.

Our integrated model reduces project risks, accelerates timelines, and ensures **100% adherence to global standards** including TIA-942, ISO, LEED, EN, and more.

Whether you're building new, expanding capacity, modernising operations, or optimising PUE, Technavious delivers **30% faster deployment**, lower TCO, and future-proof performance across the entire lifecycle.