



ACCELERATING PRODUCT QUALIFICATION WITH CONFIDENCE

YOUR TRUSTED PARTNER FOR PRODUCT QUALIFICATION TESTING

For more than 60 years, Element Minneapolis-Bloomington has helped manufacturers bring innovative products to market with confidence. Serving aerospace, defense, telecommunications, automotive, and medical device industries, our laboratory delivers comprehensive product qualification testing backed by deep technical expertise, responsive customer service, and fast turnaround times.

Located in Bloomington, Minnesota, our 42,000-square-foot facility provides a complete range of environmental simulation, EMI/EMC, mechanical, electrical, and telecommunications testing services under one roof. By consolidating testing with a single partner, customers reduce program complexity, shorten qualification schedules, and gain faster access to the data needed for critical business decisions.

COMPREHENSIVE TESTING CAPABILITIES

ENVIRONMENTAL SIMULATION TESTING

We recreate real-world operating environments to validate product performance, reliability, and durability.

Capabilities include:

- Temperature and humidity testing
- Thermal shock testing
- Altitude and rapid decompression testing
- Vibration and mechanical shock testing
- HALT and HASS testing
- Waterproofness and wind-driven rain testing
- Salt fog and corrosion testing
- Solar radiation exposure
- Fungus resistance testing
- Fluid susceptibility testing
- Icing and freezing rain testing
- Explosive atmosphere testing
- Blowing sand, dust, and particulate exposure testing

MECHANICAL & RELIABILITY TESTING

Validate product durability and operational performance through:

- Shock and vibration testing
- Acceleration and centrifuge testing
- Structural evaluation
- Functional and operational testing
- Combined environment testing
- Reliability and endurance testing

EMI / EMC & AEROSPACE QUALIFICATION TESTING

Element Minneapolis-Bloomington is recognized as a premier facility for aerospace and defense electromagnetic compatibility testing.

Capabilities include:

- RTCA DO-160 testing
- MIL-STD-461 testing
- High Intensity Radiated Field (HIRF) testing
- Indirect lightning testing
- Electrostatic discharge testing
- Power quality testing
- Conducted and radiated emissions testing
- Conducted and radiated susceptibility testing

Our facility features multiple anechoic and reverberation chambers specifically designed for aerospace and defense applications, supporting demanding qualification requirements for both commercial and military programs.

EXPERIENCE THAT DRIVES RESULTS

INDUSTRY EXPERTISE YOU CAN TRUST

Element Minneapolis-Bloomington has supported mission-critical programs across commercial aerospace, defense, telecommunications, transportation, and advanced technology markets for decades.

Our team includes:

- Over 40 full-time technical professionals
- Extensive aerospace, defense, and telecommunications expertise
- Industry committee participation and standards leadership
- Deep experience supporting complex qualification and certification programs

Many of our technical experts actively contribute to the development of industry standards, helping customers stay ahead of evolving regulatory and qualification requirements.

ONE LABORATORY. ONE TEAM. ONE SOLUTION.

Customers choose Element because we offer more than testing.

We provide:

TECHNICAL PARTNERSHIP

Collaborative engineering support from planning through final qualification.

RESPONSIVE SERVICE

Dedicated project management and clear communication throughout every stage of testing.

FASTER DECISION MAKING

Accurate data is delivered quickly, enabling teams to maintain momentum and meet critical milestones.

GLOBAL STRENGTH

Access to the resources, expertise, and network of one of the world's leading testing, inspection, and certification organizations.

SUPPORTING THE MOST DEMANDING STANDARDS

Our laboratory supports testing to a wide range of commercial, aerospace, defense, and telecommunications specifications, including:

- RTCA DO-160
- MIL-STD-461
- MIL-STD-810
- MIL-STD-464
- FAA qualification requirements
- Airbus and Boeing specifications
- GR, SCTE, TIA, and IEC telecommunications standards

Whether you are qualifying a new aerospace component, validating telecommunications infrastructure, or evaluating product reliability in extreme environments, Element provides the expertise and capabilities needed to move your program forward.



ACCREDITED QUALITY

A2LA accredits the element Minneapolis-Bloomington to ISO/IEC 17025 for mechanical and electrical testing.

Our quality systems provide customers with confidence that testing is performed consistently, accurately, and in accordance with recognized international standards.

PARTNER WITH CONFIDENCE

When performance, compliance, and speed matter, Element Minneapolis-Bloomington delivers the technical expertise, testing capabilities, and customer support you need to achieve successful qualification outcomes.

ELEMENT MINNEAPOLIS-BLOOMINGTON

Comprehensive Product Qualification Testing

Aerospace | Defense | Telecommunications |
Automotive | Medical Devices

Engineering confidence. Accelerating innovation. Delivering results.

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