



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CASCADE ENGINEERING SERVICES, INCORPORATED

6640 185th Ave. NE
Redmond, WA 98052
Nathan Isler Phone: 425-895-8617
Nathan.Isler@cascade-eng.com

MECHANICAL

Valid To: November 30, 2025

Certificate Number: 3521.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on: Automotive, Aerospace, Consumer, Medical, Military and Electrical, Electronic and Mechanical components, assemblies, and packaging:

Test Type/Equipment Capabilities:

Test Method(s):

Temperature Testing ¹
Temperature range:
(-65 to +150) °C

IEC 60068-2-1;
IEC 60068-2-2;
IEC 60068-2-78;
MIL-STD-810E/F/G Sec. 502;
MIL-STD-883G/H, Sec. 1011;
RTCA DO-160 D, E, F, G Sec. 4.0

Thermal Shock/ Temperature Cycling ¹
Temperature range:
(-65 to +150) °C

IEC 60068-2-14;
MIL-STD-202G Sec. 107;
MIL-STD-810E/F/G Sec. 501, 503, 520;
MIL-STD-883G/H, Sec. 1010;
RTCA DO-160 D, E, F, G Sec. 5.0

Temperature Humidity Testing

IEC 60068-2-30;
IEC 60068-2-38;
IEC 60068-2-78;
IEC 60068-3-4;
MIL-STD-810E/F/G Sec. 507;
MIL-STD-202G Sec. 103, 106;
MIL-STD-883G/H Sec. 1004;
RTCA DO-160 D, E, F, G Sec. 6.0;
ISTA 2A, 3A, 6A

Test Type/Equipment Capabilities:

Shock and Vibration Testing using
Electro-Dynamic Shaker ¹

Random:

Frequency Range: (10 to 3,000) Hz

Shock: 45g's

Sine:

Frequency Range: (10 to 3,000) Hz

Salt Fog Chamber Testing

Constant Acceleration Testing ¹
Up to 20 G Forces

Crash Safety Testing

Altitude Testing¹
(-1,500 to 100,000) Feet
Temperature Range
(-65 to +150) °C

Rapid Decompression and Overpressure

Waterproofness Testing

Drop Testing

Compression Testing

Test Method(s):

IEC 60068-2-6;
IEC 60068-2-27;
IEC 60068-2-47;
IEC 60068-2-59;
IEC 60068-2-64;
MIL-STD-810E/F/G/H Sec. 514, 516, 519;
MIL-STD-883G/H Sec. 2002, 2005, 2007;
MIL-STD-202G Sec. 201, 204, 213, 214;
RTCA DO-160 D, E, F, G Sec. 7.0, 8.0;
ISTA 2A, 3A, 6A

IEC 60068-2-11;
MIL-STD-202G Sec. 101;
MIL-STD-810E/F/G Sec. 509;
MIL-STD-883G/H Sec. 1009;
RTCA DO-160 D, E, F, G Sec. 14.0;
ASTM B117

IEC 60068-2-7;
MIL-STD 810E/F/G Sec. 513;
MIL-STD 202G Method 212A

RTCA DO-160 D, E, F, G Sec. 7.3

RTCA DO-160, D, E, F, G Sec. 4.0

RTCA DO-160, D, E, F, G Sec. 4.0

IEC 60529; IPX1, IPX2 only;
MIL-STD-810E/F/G Sec. 506;
RTCA DO-160, D, E, F, G
Sec. 10.3.2 Drip Test and Sec. 10.3.3 Spray Test

ISTA 2A, 3A, 6A

ISTA 2A, 3A, 6A

¹Including Customer Specifications directly related to the test technologies and within the equipment capabilities/parameters listed above.



Accredited Laboratory

A2LA has accredited

CASCADE ENGINEERING SERVICES, INCORPORATED

Redmond, WA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 20th day of February 2024.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3521.01
Valid to November 30, 2025

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.