



**INDEPENDENT. ACCREDITED. TRUSTED BY  
LAW ENFORCEMENT AND MILITARY PROGRAMS.**

## FACILITY OVERVIEW

Element Wichita is an independent ballistic testing laboratory specializing in evaluating mission-critical equipment, including body armor, helmets, and firearm safety devices. The facility is purpose-built to support law enforcement, military, and federal programs where performance, accuracy, and data integrity are non-negotiable.

Our engineers and technicians bring decades of hands-on experience working directly with military and law enforcement test specifications. That experience translates into disciplined test execution, defensible data, and programs that move efficiently from planning through final reporting.

## BALLISTIC RESISTANT MATERIAL IMPACT TESTING

### DEDICATED LAW ENFORCEMENT AND MILITARY TESTING

Element Wichita provides tailored ballistic impact testing programs to support:

- National Institute of Justice
- The Home Office (United Kingdom)
- Lot Acceptance Testing (LAT)/ First Article Testing (FAT)
- Qualification programs
- Internal R&D and material development

Ballistic testing is co-located with environmental conditioning, allowing programs to move seamlessly from conditioning to live fire. This integrated approach reduces schedule risk, eliminates unnecessary handoffs, and accelerates access to test data—often within 24 hours of test completion.

### BODY ARMOR TESTING CAPABILITIES

- NVLAP Accredited Testing  
Lab Code 200818-0
- NIJ 0101.07 (including in-house conditioning)
- NIJ 0101.04 / 0101.05 Interim
- NIJ 0101.06 (including in-house conditioning)
- NIJ 0115.00 Stab Resistance
- HOSDB Ballistic and Stab Testing
- CAST Ballistic and Stab Testing
- VPAM KDIW 2009
- VPAM BSW 2006
- UL 752
- NIJ 0108.01
- MIL-STD-662F
- Agency-specific programs supporting the FBI, DEA, and LAPD

## FACILITY FEATURES

- Four full-scale ranges that support fragmentation, pistol, and rifle testing, along with one stab tower
- Oehler Model 55 chronographs and Model 34 timers on every range
- High-speed cameras capturing up to 500,000 frames per second
- Remote live witnessing and protected viewing rooms
- Fully adjustable fixtures that support a wide range of test configurations.



## FIREARM SAFETY DEVICE TESTING

Element Wichita is a recognized leader in the testing of firearm safety devices. Our team performs reliability and functionality testing to support regulatory compliance and product validation.

### SUPPORTED STANDARDS

- California DOJ Testing Standards
- ASTM F2369-04 Non-Integral Firearms Locking Devices
- ASTM F2456-04 Youth-Resistant Firearms Containers

## HELMET TESTING

### SUPPORTING THOSE WHO PROTECT OTHERS

Element Wichita provides comprehensive helmet testing designed to support military and law enforcement personnel operating in high-risk environments.

### SUPPORTED STANDARDS & TEST TYPES

- NIJ 0106.01
- STANAG 2920
- DEF(AUST) 10469
- NIJ 0108.01
- MIL-STD-662F
- Compression, retention, pad durability, and blunt impact testing.

## ACCREDITED & RECOGNIZED

- NVLAP Accredited Testing  
Lab Code 200818-0
- CAST/HOSDB Approved Test House
- Recognized by NIJ for on-site conditioning per NIJ 0101.06 and NIJ 0101.07

## ENVIRONMENTAL CONDITIONING CAPABILITIES

Environmental conditioning is performed on-site to support NIJ and ballistic testing requirements:

- 12' x 9' x 8' walk-in chamber: -60°C to 150°C, 10–95% RH
- Thermotron chamber: -70°C to 150°C, 10–98% RH
- ESPEC chamber: -70°C to 150°C, 10–98% RH
- Thermotron chamber: up to 177°C

Multiple armor models can be conditioned simultaneously, supporting efficient testing programs and reduced lead times.

## WHY ELEMENT WICHITA

### CONFIDENCE BUILT ON ACCURACY, SPEED, AND EXPERIENCE

- Independent ballistic testing laboratory with no conflicts of interest
- Advanced instrumentation for precise, defensible data
- Extensive experience with military, law enforcement, federal, and foreign standards
- Fast turnaround times aligned with program and certification timelines
- Integrated ballistic and environmental testing under one roof
- Backed by the global expertise and quality systems of Element Materials Technology

When lives depend on performance, customers partner with Element Wichita for certainty—certainty in data, schedules, and results.

## ELEMENT WICHITA | BALLISTICS TESTING

Partner with a team that understands the responsibility behind every test.

