



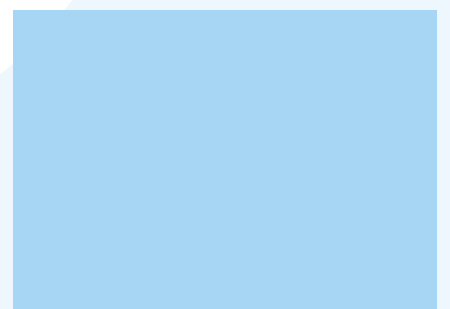
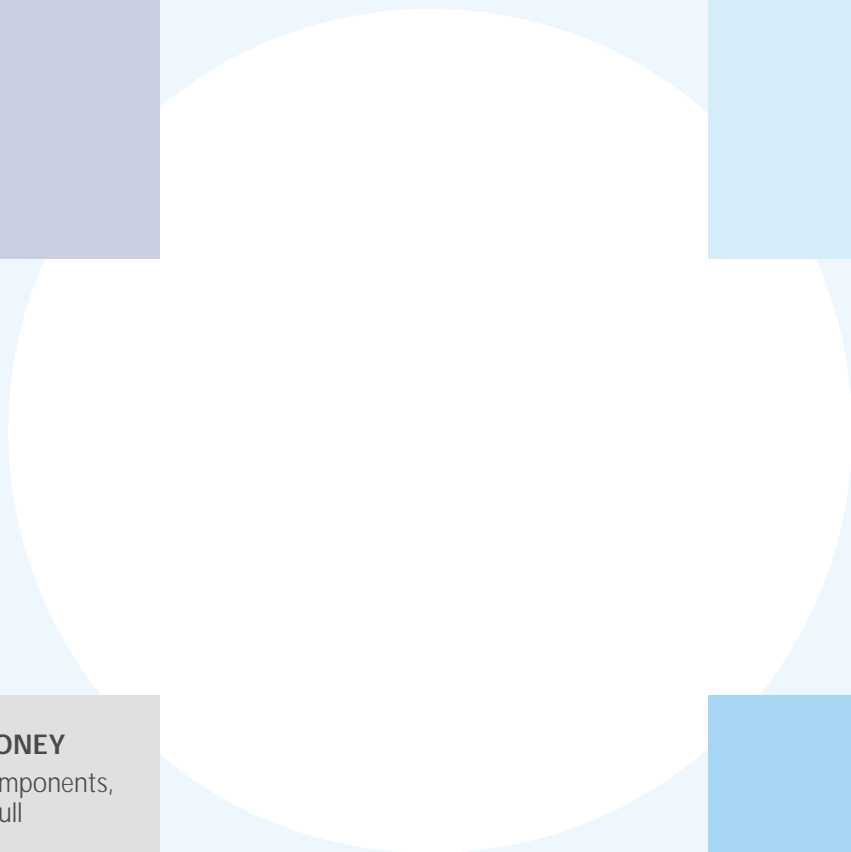
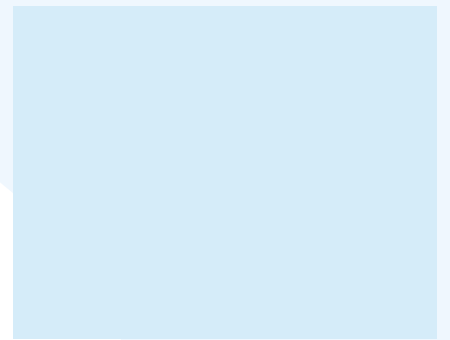
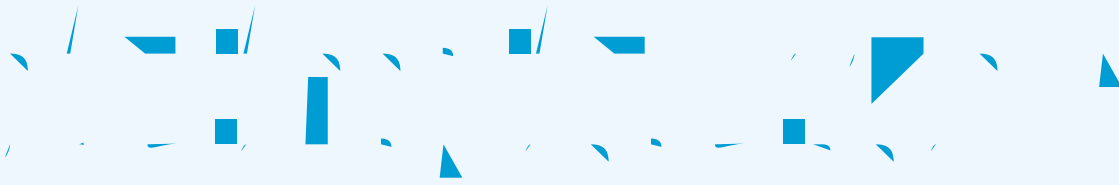
Element's UK lightning simulation laboratory is accredited to DO-160 S22 and S23, ED-105, and specialises in testing for indirect effects on electrical equipment and systems, and high voltage testing of antennas and windscreens up to 500kV. Our highly specialised experts provide consultancy on all stages of aircraft lightning protection design and certification, through review, testing, and analysis.

Technical areas of expertise include; Lightning testing (High Current, High Voltage, Full Vehicle Tests/Aircraft Level, Equipment Tests); Lightning technical advisory services (Test/Certification Plan and Lightning Protection), and lightning protection training courses

Military equipment may be required to meet either UKCA CE Marking (electrical equipment) or E Marking (whole vehicles and components) plus defence standards. Element's experts help defence companies recognise how and when this extra certification applies and can help build it into your testing program for new capability, mid-life upgrades / spiral development, or returning to core following deployment under UOR.

Element's Digital Engineering (DE) team specialises in engineering simulation services, including advanced mathematical modelling, data science, and AI to solve complex challenges. Our Digital Engineering (DE) team provides commercial and military programmes





SAVING TIME & MONEY

- Early testing of components, sub-systems and full

Element is a trusted global safety and engineering assurance company, with over 60 years' experience, UKAS accredited to ISO 17025. We offer military end-users, defence OEMs and their supply chains verification and validation of equipment through the entire CADMID cycle, ensuring it is fit for purpose and safe to operate in the harshest environments. We achieve this through physical testing, inspection and certification, complemented by digital engineering and advisory services.

With over 35 laboratories in the UK and 275 worldwide, Element holds a wide range of international military and civil certifications. The primary sectors where we operate are Defence, Aerospace, Nuclear Industry, Connected Technologies, Hydrogen, Automotive, Life Sciences, Built Environment and Renewables.

Element's expertise in product qualification and validation helps the entire defence supply chain demonstrate the durability and effectiveness of its products in the challenging military environments in which they will be deployed. It also ensures that products qualify against defence test standards as well as other legal obligations, such as:

- DEF STAN 61-5, 59-411, 00-35
- MIL-STD 1275, 461, 810
- AECTP-500
- CE and E Marking
- EMC Testing
- Explosive Atmosphere Testing
- Safety Testing

