

# Global market access for custom-built HazLoc equipment

## One Streamlined Process to Simplify your Certification Solutions

**UL can help streamline the certification of custom-built Hazardous Location (HazLoc) equipment, including control panels, for global market access by including UL, C-UL, ATEX and IECEx certifications.**

### Custom-Built HazLoc Industrial Control Panel Programs

- **UL/C-UL Panels for use in Ordinary (Unclassified) Locations** are evaluated in accordance with ANSI/UL 508A which includes requirements for general use of industrial control panels and panel enclosures. Additionally, it specifies use of panels for industrial machinery, air conditioning & refrigeration, crane control, elevator control, flame control, marine use and use as service equipment. These panels are for installation and use in ordinary locations in accordance with the National Electrical Code (NEC) and Canadian Electrical Code (CEC). Compliance with UL 508A is a prerequisite to build UL Listed hazardous locations panels.
- **UL/C-UL Panels Relating to Hazardous (Classified) Locations** are evaluated in accordance with ANSI/UL 698A which includes panels

intended for installation and use in ordinary locations, with intrinsically safe circuit extensions into Class I, II, and III, Division 1 and 2 hazardous (classified) locations. Panels relating to hazardous locations require the use of UL Listed barriers to make the circuit extensions intrinsically safe. Control drawings are also required with each panel to assure proper interconnection in the field in accordance with the NEC and CEC.

- **UL/C-UL Panels for use in Hazardous (Classified) Locations** are evaluated in accordance with ANSI/UL 1203 for Class I, Division 1 explosion-proof panels; in accordance with ANSI/NFPA 496 for Class I and II, Division 1 and 2 Types X, Y and Z purged and pressurized panels; and in accordance with ANSI/UL 121201 for Class I, Division 2 non-incendive panels. One or all of these methods of explosion protection may be covered by the UL hazardous locations certification in accordance with the NEC and CEC. Other types of explosion protection are also an option, but require a special engineering investigation.
- **UL ATEX and IECEx Panel applications** are evaluated in accordance with the IEC/EN 60079 series. This certification allows the flexibility of a “general coverage” type program for building custom control panels for Zone applications utilizing ATEX/IECEx certified components. As part of this UL ATEX/IECEx Panel Program, manufacturers

can apply an ATEX and IECEx certificate number to the assembled panel. Prior to this program, clients had to submit each design for certification and approval, which was both costly and time consuming.



## Additional Custom-Built Equipment Services

- **UL/C-UL Field Evaluations** are conducted by UL technical staff who evaluates equipment on-site for safety in the field, including testing, construction examination and installation review of products that have already been installed. Fast and efficient response to meet the tightest schedules.
- **UL/C-UL Limited Production Certification (LPC)** for custom built or limited quantity of products. UL can perform LPC services at your facility or another location, including an inspection of the equipment and component verification that will result in UL certification. We can also conduct testing, if necessary.
- **ATEX and IECEx Unit Verification** provide certification for customized equipment that is intended to be used in a potentially explosive atmosphere and for installation in the EU or other international applications, including the North Sea.
- **Offshore Inspections and Certifications** are available from UL staff to provide rapid response to offshore certification needs with a team of technical engineering experts versed in NEC, ATEX, CEC, and IECEx-based certification and technical requirements.

## UL's Hazardous Location Certification Process

### 1 - Prepare application



- Product information
- Applicable Protection Methods (if available)
- Desired geographic regions for market access
- Desired timeframe and type of service

### 2 - Apply online



Manufacturer requests quote via [HazLoc@ul.com](mailto:HazLoc@ul.com) or the UL HazLoc App, contact us button.

### 3 -Discovery call



UL will contact you to review the request, define project scope and develop a certification solution and quotation

### 4- Project initiated



Quote is accepted, a project is established and a UL Engineer will contact you.

## Why choose UL?

With over 100 years of experience in explosion protection, UL drives global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL's global network of technical experts and state-of-the-art facilities, along with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders, helps manufacturers gain the compliance credentials they need to compete in a more complex global supply chain. UL helps avoid red-tagged products in the field and minimize questions from electrical inspectors for custom-designed equipment.

To learn more, call 1.877.854.3577, visit us at [UL.com/HazLoc](https://www.ul.com/HazLoc) or email: [HazLoc@ul.com](mailto:HazLoc@ul.com).



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