

## INTRODUCTION

Esco Services takes professional pride in ensuring compliance with legal guidelines and ISO standards while helping your company minimize equipment disruption or downtime; thus improving your company's productivity.

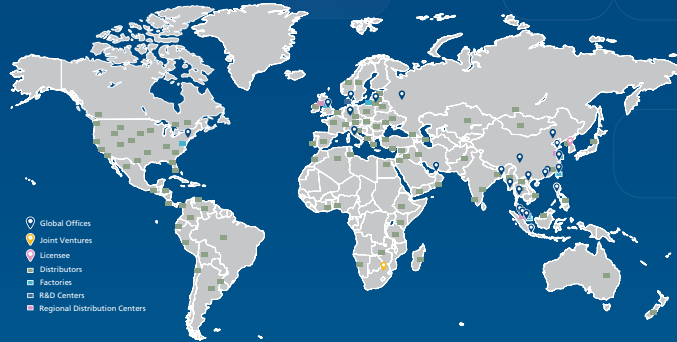
With a strong global network of field service engineers, we provide comprehensive and reliable services to our clients that include dependable inventory of ready parts, technical support, field-based engineering, factory engineers, and after-sales representatives.

Our field service engineers have extensive experience and undergo up-to-date trainings. Globally, we have field service representatives who are NSF, TÜV-NORD, NEBB, IFBA and CETA-CNBT certified who are able to service a wide range of equipment.

Esco is your choice for Life Science, Cleanroom, Pharmaceutical, and Medical Laboratory Equipment Services.



## ESCO GLOBAL NETWORK 42 LOCATIONS IN 21 COUNTRIES ALL OVER THE WORLD



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## Esco Services



[www.escolifesciences.com](http://www.escolifesciences.com)



## CERTIFICATION / VALIDATION / PREVENTIVE MAINTENANCE

For your equipment's optimum performance, regular testing and maintenance should be done at least annually.

### Biological Safety Cabinets

Biosafety Cabinets provide safety to users from infectious agents and ensures sample protection against external contaminants.

Esco conducts performance testing in accordance with the following international standards:

- NSF/ANSI 49 (American Standard)
- EN 12469 (European Standard/British Standard)
- AS 2242.2 (Australian Standard)
- JIS K3800 (Japanese Standard)



HEPA/ULPA filters and airflow are tested to ensure that the BSC performs to the optimum level it is designed to.

### Laminar Flow Cabinets

Laminar Flow Cabinets are enclosed benches designed to prevent contamination of any particle sensitive materials.

HEPA/ULPA filter integrity test and particle count test are performed to ensure that the work zone is in desired cleanliness level as per ISO 14644.1.



### Fume Hoods

Fume Hoods are containment devices used to prevent operators from inhaling toxic fumes or particles. This equipment has two types - ducted fume hood which makes use of an exhaust system and a ductless fume hood that utilizes carbon filtration.

Performance testing conducted are based on guidelines recommended in ASHRAE 110 standard (US) and EN14175 standard (Europe).



### Thermostatic Equipment

Thermostatic equipment are devices used for thermal convection applications. Laboratory ovens are mainly used for drying and sterilizing, while laboratory incubators are used to grow and maintain microbiological or cell culture.

Esco validates and calibrates laboratory ovens and incubators during the regular performance testing based on manufacturer's specification.



### Refrigerators and Freezers

Cold storage devices are used to store samples that require special storage temperature.

During performance testing, Esco conducts physical checks on the unit and calibrates the temperature. The performance testing is conducted based on manufacturer's specification.



### Cleanrooms

Cleanroom facilities are designed to maintain extremely low levels of particulates like dust, airborne organisms, or vaporized particles.

Esco conducts particle count testing based on ISO 14644.1 to ensure that the cleanroom facility is certified to the desired ISO Class level which are performed by Esco's NEBB-certified professionals and technicians.



### Pharmaceutical Isolators

Pharmaceutical Isolators are used for pharmacy aseptic compounding applications. It provides continuous and complete sample or product isolation from external environment, including operators.

Esco performs testing based on CETA CAG-002-2006, IEST-RP-CC002.2 Section 6.6 and ANSI/AIHA Z9.5-2003.



### Other Laboratory Equipment

Esco provides services to various laboratories, pharmaceuticals, and medical equipment.



These include animal workstation, centrifuge, shaker, air shower, downflow booth, PCR cabinet, and thermal cycler, to name a few. If you have any equipment that requires servicing, contact your nearest Esco service provider.

### DECONTAMINATION OF BIOSAFETY CABINETS, LABORATORY & HOSPITAL ROOMS

Decontamination guarantees ready and safe usage of Biosafety Cabinets after installation, relocation, or filter replacement. In laboratory or hospital rooms, decontamination helps reduce microbial agents on surfaces.



Decontamination is done by using formaldehyde, hydrogen peroxide, or other agents by our trained service engineers.

### TROUBLESHOOTING AND PARTS REPLACEMENT

Esco Services provides parts and consumables replacement for Esco and non-Esco products. Our field service engineers are ever-ready to provide technical support to our customers. You can expect a fast and responsive team to attend and resolve your equipment issues.

Contact the nearest Esco office for troubleshooting services and parts replacement.

