TECHNICAL
EDUCATION
ACADEMY

School of Engineering

COURSE PROGRAMME

000391

ELPO013 - Inspection & Testing of Electrical Equipment (Portable Appliance Testing)

Whether at work or at home, electronic and (alternatively in the private and professional sector) electrical appliances now dominate our lives.



Learn from the Best in the Business!

Course overview

Duration: 3 days / 24 hours · Foundation level

Why take this course

Whether at work or at home, electronic and (alternatively in the private and professional sector) electrical appliances now dominate our lives.

Quality and safety standards set strict requirements for small appliances such as kitchen utensils, personal hygiene devices and large appliances used every day in households around the world.

In electrical safety testing, portable appliance testing is a process by which electrical appliances are routinely checked for safety. The formal term for the process is "in-service inspection & testing of electrical equipment".

Testing involves a visual inspection of the equipment and any flexible cables for good condition, and also where required, verification of earthing (grounding) continuity, and a test of the soundness of insulation between the current carrying parts, and any exposed metal that may be touched. The formal limits for pass/fail of these electrical tests vary somewhat depending on the category of equipment being tested.

Who it is for and how it helps

This electrical safety and PAT testing training course is ideal for those who work with electrical equipment, such as those in the following professions: electricians, health & safety managers, electrical engineers.

What you will learn

- Identify and prevent electrical hazards in the home and workplace
- Demonstrate in-depth knowledge of the effects of electric current on the body
- Understand the importance of protective clothing and the different types of PPE
- Discuss the difference between direct currents and alternating currents
- Explain the basic concepts of electricity, such as voltage and resistance
- List factors that affect capacitance and understand energy density of electric fields
- Work safely with electrical equipment such as power tools and other hand tools
- Perform a risk assessment and understand the code of practice for the testing of electrical equipment
- Reduce and control risk by implementing an effective safety management system
- Identify the different classes of equipment and types of safety tests

Programme instructor



Алексей Нау

Инструктор по КИПиА и АСУ ТП, Алексей Нау, имеет обширный опыт в разработке и внедрении систем автоматизации в различных отраслях, таких как АСУТП, КИПиА, HVAC, АГПТ, АППТ, ИСБ. Он также обладает многолетним опытом обучения технических специалистов, инженерных работников и руководящего персонала.

Алексей является экспертом в области Det-Tronics, WinCC Flexible, AutoCAD, 1С, MathCAD, OPC Fastwel, Loop Explorer, Kentec, Weintek, Siemens, Болид - С2000. Его ключевые компетенции включают сопровождение установленных автоматизированных систем, обучение персонала заказчика работе с установленным оборудованием и программным обеспечением, сервисное обслуживание смонтированного оборудования, работу с проектной документацией, проведение переговоров с представителями заказчика, шеф-монтаж, представительство на площадке заказчика, монтаж электрооборудования на промышленных объектах, анализ проектной документации, организация и контроль выполнения работ монтажным персоналом.

Алексей работал на объектах, таких как нефтеперерабатывающий завод Шымкент, ТОО «Петро Казахстан Ойл Продактс» (ПКОП), нефтяная перекачивающая станция №10 (НПС-10) в городе Актогай, ТОО «Казахстанско-Китайский Трубопровод» (ТОО ККТ), А-НПС-4 («КАСПИЙСКИЙ ТРУБОПРОВОДНЫЙ КОНСОРЦИУМ») СРС «NPS Kurmangazy», и А-НПС-3А («КАСПИЙСКИЙ ТРУБОПРОВОДНЫЙ КОНСОРЦИУМ») СРС «NPS Isatay».

Алексей получил образование в Томском Государственном Университете Систем Управления и Радиоэлектроники, на кафедре "Телевидение и Управление" Радио Технического Факультета, по специальности "Сервис электронных систем безопасности, личности, имущества и информации".

Participant ratings

Programme evaluation based on participant feedback

Overall programme rating — 5.0 / 5

Clarity of learning objectives	**4.9 / 5**
Confidence in applying knowledge and skills	**4.9 / 5**
Achievement of learning objectives	**4.9 / 5**
Relevance of content to job tasks	**4.9 / 5**
Suitability of difficulty for the level of preparation	**4.9 / 5**
Increase in knowledge	**4.9 / 5**
Skills development	**4.9 / 5**
Willingness to recommend the programme to colleagues	**4.9 / 5**

11 responses

Joining the programme

Contact the Academy and quote course code 000391 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

Learn from the Best in the Business!