

## UEERL0007

# Disconnect-reconnect 3.3 kV electric propulsion components of self-propelled earth moving vehicles



### Course overview

This course is designed for fitters/mechanics working on 3.3kV electric propulsion components of an engine driven, self-propelled earthmoving vehicle. This nationally accredited course, provides you with the skills and knowledge to identify circuits and isolation arrangements, follow isolation procedures, select and use of HV testing and measuring devices, terminate and connect HV cables and conductors, and safely test electrical components of an electrical self-propelled engine driven earthmoving vehicle, with a focus on a high level of safety.

### Delivery options

This course is delivered face to face and generally takes around 5 days to complete. A typical course runs from 8:00 am – 4.00pm daily.

### Learning outcomes

This unit covers isolating, disconnecting and reconnecting HV electric propulsion components on engine driven, self-propelled earthmoving vehicles under the restrictions of designated electrical equipment and conditions specified, operating at 3,300 volts.

- » Working safely identifying circuit and isolation arrangements
- » Following isolation procedures
- » Selecting and using HV testing and measuring devices
- » Terminating and connecting HV cables and conductors
- » Safety testing and reporting.

This course is intended for fitters/mechanics, providing them with the knowledge and skills to safely work on the electrical components of electric-drive earth moving vehicles. It relates specifically to Restricted Electrical Licence requirements when applying for a permit in Western Australia and Queensland.

**NOTE:** This course fulfils all the *Western Australian Department of Mines, Industry Regulation and Safety (DMIRS) Energy Safety and Licencing Office* and the *Queensland Workplace Health and Safety Electrical Safety Office Licencing Department* regulatory requirements with regards to the disconnection and reconnection of HV electric propulsion components of self-propelled earth moving vehicles.

### Training locations

- » **Brisbane**
- » **Perth**
- » **Approved customer sites.**

### Resources required

Please note participants will be provided with all learning and assessment material. Participants will require their personal protective equipment (PPE) relevant to their workplace policy and procedures for undertaking practical activities.

### Assessment

This course is assessed through demonstration, presentation and application of all elements of competency in the workplace. Participants will be required to complete activities that include role-plays, oral and written questioning, practical demonstrations and performing scenarios.

### Entry requirements

- » Minimum 18 years of age by the course commencement date
- » Have sound levels of written and spoken English to be able to complete assignments.

There is a mandatory pre-requisite online unit **UEECD0007** - Apply work health and safety regulations, codes and practices in the workplace; which must be completed online prior to enrolling into this course. Prerequisite unit completed online must be completed and submitted at least five (5) days prior to the commencement of this course. Strict eligibility criteria applies to those participants wishing to enrol into this course. Criteria varies from State to State. Please contact Komatsu Training Academy for further information prior to enrolment.



# Komatsu Training Academy

## Who we are

Komatsu Training Academy is a Registered Training Organisation (RTO), which delivers nationally recognised and customised training through by a variety of methodologies, including: online, on-site, at customers' premises or at a Komatsu dedicated training facility.

No matter what your training needs our courses will upskill your workforce – ensuring you are best equipped to handle the ever changing technical and technological challenges facing the industries we operate in.

As an industry specific RTO, you can be assured that Komatsu Training Academy, delivers the very best training from experts who are passionately committed to achieving the right outcomes for you and your workforce.

## Skills packages

Komatsu Training Academy recognises that the first step in ensuring safe, productive and profitable worksites is to have plant operators and service technicians who can safely and competently operate and service their machines, then build on these core skills to develop into highly proficient professionals.

We offer a range of training and skills development courses, from industry accredited nationally recognised machine specific courses, through to specialist courses that ensure the highest levels of proficiency and professionalism – and capable of delivering measurable and sustainable improvements in productivity, cost reduction, machine reliability and safety.

## Our training facilities

Komatsu Training Academy boasts two purpose built education centres - located in Brisbane and Perth. Our facilities offer a highly interactive and technologically advanced learning environments, with spacious classrooms, state-of-the-art equipment and workshop labs specifically designed to deliver hands-on training to ensuring that participants gain practical skills and experience.

Our innovative and futuristic training facilities assist with delivering a platinum level of training, helping to create career development opportunities for current and future generations. These training centres are an important element within our total customer satisfaction experience, by ensuring we offer the best trained Original Equipment Manufacturer (OEM) support in the industry.

