



# KOMATSU TRAINING ACADEMY NATIONALLY RECOGNISED TRAINING COURSE GUIDE



Komatsu Training Academy 1300 390 377

**KOMATSU**  
*Driven by your success*



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# Komatsu Training Academy Capability Statement



## People-powered training & development services

Komatsu Training Academy is a Registered Training Organisation (RTO) specifically developed to assist our construction, quarry and mining customers by delivering nationally recognised and customised training where they need it – online, on-site, at customers' premises or at our own dedicated training facilities. Our offerings include a mix of nationally recognised courses and modules, along with purpose-designed operator, technical and management training.

The Komatsu Training Academy provides Komatsu machine users with appropriate training in service and repair technology as an essential part of our product support capability designed to improve productivity and lower the cost of ownership. As an industry leader we strive to deliver safe and innovative solutions that best meet your needs and expectations.

Our team of specialist, industry-qualified trainers deliver a broad spectrum of competency and skill-based development programs customised to your business and targeted to meet your specific industry needs. These programs include leadership and management training, operator skill proficiency development and customised technical training.

No matter what your training needs, our industry-specific tailored courses will enhance your people's skills, building your management and workforce capabilities, competencies and their proficiency – ensuring you are best equipped to handle the ever changing technical and technological challenges facing the industries we operate within now and into the future.

## Who we are

Komatsu Australia is unique in being the only national distributor across the construction, quarrying and mining industries able to provide Nationally Recognised, customised, in-depth training tools for customers targeted to not only increase productivity, but also to improve efficiency and profitability.

In addition to our extensive range of training courses, we can also custom deliver productivity improvement initiatives for our construction, quarry and mining customers suitable for any size site or project.

Due to our extensive consultation and industry experience, we have assisted some of the industry's leading organisations to be able to solve complex issues, achieve measurably improved results and build leadership capabilities towards improvements in both productivity and in performance.

## Benefits to your Business

As an industry specific RTO, you can be assured that Komatsu Training Academy delivers the very best training from experts who not only know this industry intimately, but who are passionately committed to achieving the right outcomes for you and your workforce.

Komatsu has established a reputation for products that combine innovation and technological advances, with industry-leading levels of reliability, durability and productivity and is one of the largest training organisations of apprentice Diesel Fitters, Boiler Makers and Auto Electrical trades persons in Australia.

We choose to do this, by delivering people powered technology trained technicians to ensure our customers experience the best possible Komatsu ownership and are involved every step of the way.

In today's labour market, where a shortage of experienced service technicians and skilled operators is impacting on the industries in which we operate and serve, all too often training has become focused on churning out numbers of apprentices, aiming more at quantity rather than at quality outcomes.



At Komatsu Training Academy, we focus on what is really needed: up-skilling for production improvement, preventive maintenance and safety.

We believe that the difference between a key technician or operator who is merely competent compared with one who is truly proficient at their job – can translate into significant benefits to your bottom line as well as having a more engaged and committed loyal workforce. We understand the challenges of your specific operating environment, and how to work with you to get the very best from your equipment and your management, technical and operational teams.

At Komatsu Training Academy, we understand the difficulties faced by our customers across highly diverse industry sectors – so we adapt delivery of our training to ensure we achieve the best outcomes for your investment.

When you need expert training for your people, Komatsu Training Academy is right there with you.

### Skills Packages

At Komatsu Training Academy, we recognise 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.

Operator and technician training courses available through Komatsu Training Academy cover a variety of mining, construction and utility machines including backhoe/loaders, dozers, crushers, dump trucks, excavators (conventional and hybrid), graders and wheel loaders, as well as general systems and technologies.

In addition, Komatsu Training Academy can develop and tailor any training program to suit customers' specific requirements. Contact us to discuss how we can customise your training to meet your specific business objectives.

### Our Training HQ: Komatsu Technical Education Centre (KTEC)

KTEC has become Komatsu Australia's primary training centre for operators and technicians in Australia, New Zealand and New Caledonia.

It is one of the region's most advanced technical training facilities for mining, earthmoving and utility equipment. Located on more than 3 hectares of land, it has more than 2600 sqm of dedicated training facilities, including seven classrooms, seven technical/electrical laboratories and a large machine workshop.

KTEC also incorporates a number of simulators, providing the ability for both novice and experienced operators to safely learn on a range of machines, from construction and utility size up to ultra-class mining equipment. KTEC was originally designed to specifically increase the technical capability of our own service and support people to the benefit of our customers.

It has now evolved to become an important element within our total customer satisfaction experience by ensuring we offer the best trained OEM support in the industry.

**BSB51918**

# Diploma of Leadership & Management



This nationally recognised Qualification, developed by industry professionals, is made up of 12 units completed on a self-paced basis. It is designed to equip you with the practical knowledge and skills required to step up and hit the ground running as a leader and manager.

Through this Diploma, you will learn to develop fundamental business skills, including leadership, performance management, customer service, workplace priorities, risk and project management, and the ability and confidence to manage a team.

This Qualification can be completed in a combination of different ways depending on your previous experience and development needs, whether as an individual or at a group level. To discuss a learning plan that best suits your experience and needs please contact Komatsu Training Academy.

This Qualification is a stepping stone to an Advanced Diploma or Bachelor degree.

## Learning Outcomes

- » Effectively manage people to achieve team and business goals
- » Manage operational plans to achieve set goals
- » Maintain work life balance
- » Manage professional development
- » Be a role model in the workplace
- » Build and sustain an innovative work environment.

## Duration

### 12 months.

As this is self-paced, you are welcome to complete the course as fast as you like. However, we recommend that you complete one to two units per month to complete within the 12-month time limit.

We find our students complete the course in varying time frames. It really does depend on your life situation. That is, your time, availability, background, skills and work rate.

## Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield.**

## Recognition of Prior Learning (RPL)

If you are currently working in a management and leadership position and have more than 2 years business management experience, please talk to a Komatsu Training Academy course consultants about Recognition of Prior Learning (RPL) eligibility. Our expert trainers can develop a tailored training plan for you based on your existing role and experience.

## Resources Required

Participants will be provided with all learning and assessment materials in order to complete this course.

## Course Content

The successful achievement of this Qualification requires you to complete 12 units in total. These include 4 core units and 8 elective units as outlined below:

### Core Units

|           |   |
|-----------|---|
| BSBLDR511 | Develop and use emotional intelligence            |
| BSBLDR502 | Lead and manage effective workplace relationships |
| BSBMGT517 | Manage operational plan                           |
| BSBWOR502 | Lead and manage team effectiveness                |

### Elective Units

|            |  |
|------------|--|
| BSBCUS501  | Manage quality customer service                              |
| BSBFIM501  | Manage budgets and financial plans                           |
| BSBHRM405  | Support the recruitment, selection and induction of staff    |
| BSBINN502  | Build and sustain an innovative work environment             |
| BSBMGT502  | Manage people performance                                    |
| BSBSUS501  | Develop workforce policy and procedures for sustainability   |
| BSBRISK501 | Manage risk  |
| BSBWOR501  | Manage personal work priorities and professional development |

If you are unsure of what's right for you, or would like to discuss this and other Komatsu Training Academy programs in more detail, please call us on 1300 390 377.



**BSB30115**

# Certificate III in Business



This nationally recognised Qualification is designed to provide you with the skills and knowledge to develop a broad range of business skills to kick-start your career.

If you work in a business support role, this is the ideal course to bring you up to speed with the latest business and computing skills. It will help you become more efficient in your day-to-day operations and improve your confidence in dealing with the technology, regulations and legislation which affects business operations.

## Learning Outcomes

- » Increase your confidence and knowledge in business operations
- » Develop an increased understanding of business operations
- » Deliver quality customer service to your customers
- » Work effectively with your fellow team members and managers.

## Duration

**12 months.**

As this is self-paced, you are welcome to complete the course as fast as you like. However, we recommend that you complete one to two units per month to complete within the 12-month time limit.

We find our students complete the course in varying time frames. It really does depend on your life situation. That is, your time, availability, background, skills and work rate.

## Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield.**

## Recognition of Prior Learning (RPL)

If you are currently working in a business related support position and have more than 2 years experience in your job role, please talk to a Komatsu Training Academy course consultants about Recognition of Prior Learning (RPL) eligibility. Our expert trainers can develop a tailored training plan for you based on your existing role and experience.

## Resources Required

Participants will be provided with all learning and assessment materials in order to complete this course.

## Course Content

The successful achievement of this Qualification requires you to complete 12 units in total. This includes 1 core unit and 11 elective units listed below:

### Core Units

|                  |   |
|------------------|---|
| <b>BSBWHS302</b> | Apply knowledge of WHS legislation in the workplace |
|------------------|---|

### Elective Units

|                  |  |
|------------------|--|
| <b>BSBCMM301</b> | Process customer complaints                          |
| <b>BSBCUS301</b> | Deliver and monitor a service to customers           |
| <b>BSBDIV301</b> | Work effectively with diversity                      |
| <b>BSBFLM303</b> | Contribute to effective workplace relationships      |
| <b>BSBFLM305</b> | Support operational plan                             |
| <b>BSBFLM309</b> | Support continuous improvement systems and processes |
| <b>BSBFLM311</b> | Support a workplace learning environment             |
| <b>BSBFLM312</b> | Contribute to team effectiveness                     |
| <b>BSBINN301</b> | Promote innovation in a team environment             |
| <b>BSBWOR301</b> | Organise personal work priorities and development    |
| <b>BSBWOR203</b> | Work effectively with others                         |

If you are unsure of what's right for you, or would like to discuss this and other Komatsu Training Academy programs in more detail, please call us on 1300 390 377.



**RII30815**

# Certificate III in Civil Construction Plant Operations



This nationally recognised Qualification is for individuals wishing to develop or enhance their proficiency as a plant operator in the civil construction industry. Skilled plant operators are in strong demand across Australia as private contractors, plant hirers, and skilled operators within local government councils, quarrying and mining, and other relevant resource industry sectors.

Komatsu Training Academy offers a range of courses and modules to build on your current skills, or get recognised for your past industry experience, across a wide range of operator applications and work areas including: infrastructure - related projects (subdivisions, bridge works, railways, harbours, sewerage and drainage, electrical infrastructure, pipeline and recreation works), bulk earthworks, detail excavation, and the extractive industries (quarrying and mining).

## Course Costs

Students enrolling via an apprenticeship pathway may be eligible for subsidised training. Eligibility and student contribution fees vary state by state. Please contact Komatsu Training Academy for further information.

## Learning Outcomes

- » Prepare machinery for the day's operation
- » Identify and report on hazards related to plant and prepare work requirements
- » Identify underground services
- » Clean, lubricate and refuel machines
- » Perform minor repairs and adjustments when and as required
- » Apply and work within safety requirements while meeting environmental requirements as part of the operations
- » Work from drawings and specifications under direction from supervisors
- » Operate plant equipment and all attachments in varying construction environments.

Certificate III in Civil Construction Plant Operations provides training in both theory and practical elements to prepare you for a career as a plant operator.

While there are no formal entry requirements for this Qualification, those enrolling with Komatsu Training Academy must be employed in a relevant industry sector and have access to the required equipment and practical work scope to fulfil the requirements of this course.

## Duration

**Up to 3 years.**

Course duration may vary depending on your prior knowledge, skills and experience. If studying via an apprenticeship pathway this qualification is delivered on the worksite over a three (3) year period.

## Training Locations

» **Approved Customer Sites.**

## Recognition of Prior Learning (RPL)

If you are currently working in the civil construction industry and have more than 3 years' experience, please talk to a KTA representative about RPL. Our specialist trainers can develop a tailored training plan for you based on your existing skills, knowledge and experience.

## 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.

## Timetable

This Qualification is delivered in the workplace, either via an Apprenticeship pathway, or through commercial arrangements negotiated with employers. Training can occur in workplaces throughout Australia, although minimum student numbers will apply in some locations. Please contact Komatsu Training Academy to discuss training solutions for your organisation.

The nominal term for a full-time plant operator apprentice is up to three years (36 months). The training duration for course participants not entering via an apprenticeship pathway will depend on the existing skill and experience levels of the learners.

Delivery is generally conducted during standard work hours (one full day) for the student in the workplace, on an approximate four-to-six week cycle. Details will be negotiated between Komatsu and the employer.

## Entry Requirements

Eligible participants are normally employed as a plant operator who works within the civil construction industry.

KTA recognises that not all participants will have the same level of ability in relation to reading, writing and performing calculations. All participants enrolling into a nationally recognised qualification will undertake a Language, Literacy and Numeracy (LLN) Quiz, which is conducted online via LLN Robot. LLN Robot is an online system that combines Australian Core Skills Framework (ACSF) Testing, Course Profiling and LLN Support.

## Course Contents

The successful achievement of this Qualification requires completion of 19 units in total, including 14 core units and 5 elective units of which:

- » At least 2 elective units must be chosen from Group A
- » At least 3 elective units must be chosen from Group A,B and C
- » No more than 1 elective unit may be chosen from elsewhere in this training package, or from another endorsed training package, or from an accredited course
- » If you are unsure of what elective units are right for you please discuss this in more detail with Komatsu Training Academy on 1300 390 377.

### Core Units

|            |  |
|------------|--|
| RIIBEF201D | Plan and organise work   |
| RIICCM201D | Carry out measurements and calculations  |
| RIICCM202D | Identify, locate and protect underground services                                      |
| RIICCM203D | Read and interpret plans and specifications  |
| RIICCM205E | Carry out manual excavation  |
| RIICCM206D | Support plant operations   |
| RIICCM207D | Spread and compact materials manually  |
| RIICCM208D | Carry out basic levelling  |
| RIICOM201D | Communicate in the workplace   |
| RIISAM201D | Handle resources and infrastructure materials and safely dispose of nontoxic materials |
| RIISAM203D | Use hand and power tools   |
| RIISAM204D | Operate small plant and equipment  |
| RIIWHS201D | Work safely and follow WHS policies and procedures                                     |
| RIIWMG203D | Drain and dewater civil construction site  |

### Group A Electives

|            |  |
|------------|--|
| RIIMPO318F | Conduct civil construction skidsteer loader operations         |
| RIIMPO319E | Conduct backhoe/loader operations                              |
| RIIMPO320F | Conduct civil construction excavator operations                |
| RIIMPO321F | Conduct civil construction wheeled front end loader operations |
| RIIMPO323E | Conduct civil construction dozer operations                    |
| RIIMPO324F | Conduct civil construction grader operations                   |
| RIIMPO325E | Conduct civil construction scraper operations                  |

### Group B Electives

|            |   |
|------------|---|
| RIIMPO317F | Conduct roller operations                 |
| RIIMPO337E | Conduct articulated haul truck operations |
| RIIVEH304D | Conduct tip truck operations              |

### Group C Electives

|            |   |
|------------|---|
| RIICCM210D | Install trench support                          |
| RIICCM211D | Erect and dismantle temporary fencing and gates |
| RIIHAN308F | Load and unload plant                           |
| RIIWHS202D | Enter work in confined spaces                   |
| RIIWHS204D | Work safely at heights                          |

**AUR30316**

# Certificate III in Automotive Electrical Technology



This qualification will provide you with the skills and knowledge used by tradespeople who service, diagnose and repair electrical systems and components in vehicles in the automotive electrical service and repair industry.

## Course Costs

Students enrolling via an apprenticeship pathway may be eligible for subsidised training. Eligibility and student contribution fees vary state by state. Please contact Komatsu Training Academy for further information.

## Learning Outcomes

This qualification is designed to provide an industry recognised skills profile related to trade work as an Automotive Electrical Technology Tradesperson. Skills development is usually undertaken through an Australian Apprenticeship arrangement where the mix of on and off-the-job training is specified in the Training Plan associated with the Contract of Training between the employer and apprentice.

The Certificate III in Automotive Electrical Technology gives you the training you need to start your career as a qualified automotive (electrical technology) tradesperson. You will learn how to service, diagnose and repair vehicle electrical and electronic systems and components. This qualification provides great scope for future work

in both the automotive electrics and automotive technology related industries.

## Duration

**Up to 4 years.**

Course duration may vary depending on your prior knowledge, skills and experience. If studying via an apprenticeship pathway this qualification is delivered face to face over a four (4) year period.

## Training Locations

- » **KTEC (Sherwood)**
- » **Approved Customer Sites.**

## Recognition of Prior Learning (RPL)

If you are currently working in the automotive electrical service industry and have more than 3 years' experience, please talk to a KTA representative about RPL. Our specialist trainers can develop a tailored training plan for you based on your existing skills, knowledge and experience.

## 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.

## Entry Requirements

Eligible participants are normally employed by an employer who works within the Automotive Electrical Service, Repair or relevant industry that would be suitable for an occupation.

KTA recognises that not all participants will have the same level of ability in relation to reading, writing and performing calculations. All participants enrolling into a nationally recognised qualification will undertake a Language, Literacy and Numeracy (LLN) Quiz, which is conducted online via LLN Robot. LLN Robot is an online system that combines Australian Core Skills Framework (ACSF) Testing, Course Profiling and LLN Support.

## How to apply and Enrol

Obtain an Apprenticeship in AUR303016, or if you have current existing knowledge, skills and experience, then complete a RPL Application. Enrolments can be made directly through the Komatsu Training Academy.

## Course Contents

### Year 1

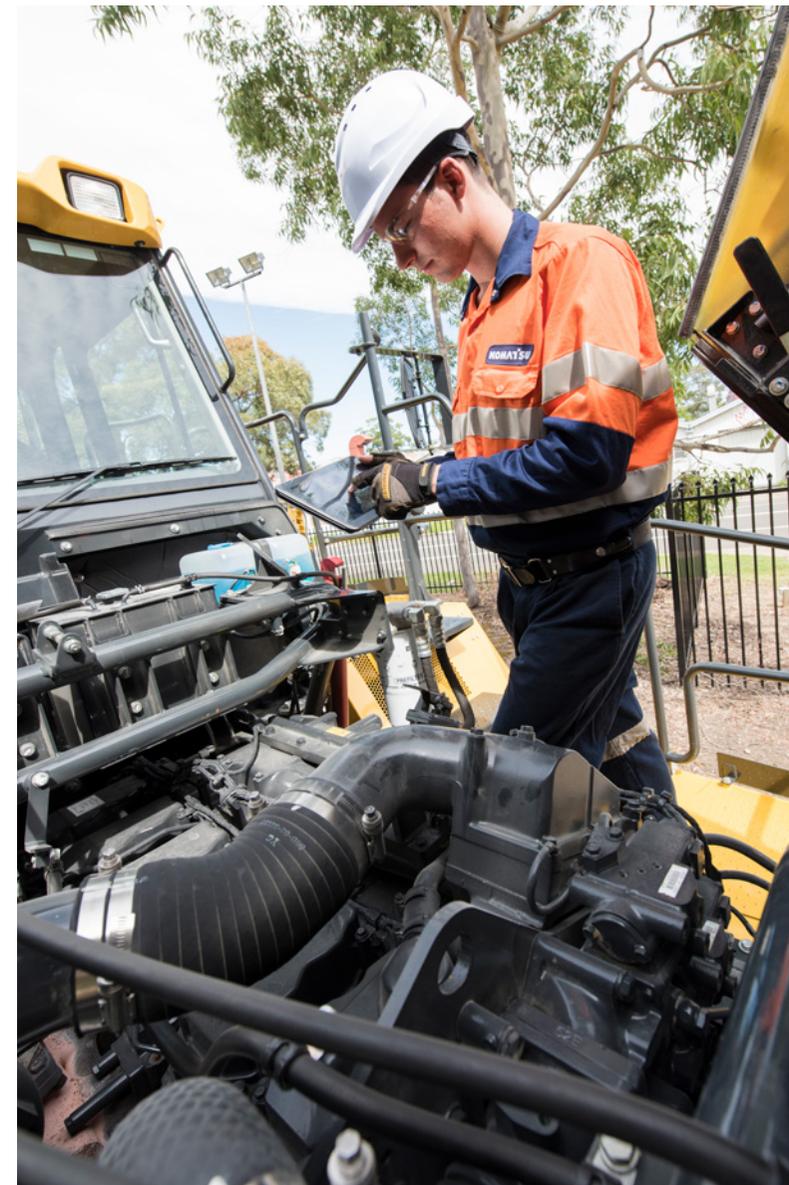
|           |  |
|-----------|--|
| AURAEA002 | Follow environmental and sustainability best practice in an automotive workplace |
| AURASA002 | Follow safe working practices in an automotive workplace                         |
| AURAFK003 | Communicate effectively in an automotive workplace                               |
| AURTTK002 | Use and maintain tools and equipment in an automotive workplace                  |
| AURETR006 | Solder electrical wiring and circuits  |
| AURETR007 | Apply knowledge of automotive electrical circuits and wiring systems             |
| AURETR016 | Read and apply vehicle wiring schematics and drawings                            |
| AURETK002 | Use and maintain electrical test equipment in an automotive workplace            |
| AURETR012 | Test and repair basic electrical circuits  |
| AURETR025 | Test, charge and replace batteries and jump-start vehicles                       |
| AURETR035 | Apply knowledge of petrol and diesel engine operation                            |
| AURVTV001 | Remove, replace and test non-electrical vehicle components and accessories       |
| AURETR009 | Install vehicle lighting and wiring systems                                      |
| AURETR010 | Repair wiring harnesses and looms  |
| AURETR013 | Inspect, test and service charging systems                                       |
| AURETR014 | Inspect, test and service starting systems                                       |

### Year 2

|           |  |
|-----------|--|
| AURATA001 | Identify basic automotive faults using troubleshooting processes           |
| AURETR026 | Remove, replace and program electrical and electronic units and assemblies |
| AURETR027 | Install ancillary electronic systems and components                        |
| AURTTA018 | Carry out diagnostic procedures  |
| AURETR028 | Diagnose and repair instruments and warning systems                        |
| AURETR029 | Diagnose and repair charging systems                                       |
| AURETR030 | Diagnose and repair starting systems                                       |
| AURETR031 | Diagnose and repair ignition systems                                       |
| AURETR032 | Diagnose and repair automotive electrical systems                          |

### Year 3

|           |  |
|-----------|--|
| AURETR023 | Diagnose and repair spark ignition engine management systems                       |
| AURETR024 | Diagnose and repair compression ignition engine management systems                 |
| AURETR043 | Diagnose and repair electronic body management systems                             |
| AURETR044 | Diagnose and repair integrated engine and transmission management systems          |
| AURETR045 | Inspect, service and repair DC electric motor drive systems                        |
| AURETR020 | Diagnose and repair network electronic control systems                             |
| AURETR021 | Inspect, service and repair electronic management, monitoring and tracking systems |



**MEM30305**

# Certificate III in Engineering – Fabrication Trade



This qualification will provide you with the skills and knowledge necessary to become a welder or metal fabricator tradesperson.

## Course Costs

Students enrolling via an apprenticeship pathway may be eligible for subsidised training. Eligibility and student contribution fees vary state by state. Please contact Komatsu Training Academy for further information.

## Learning Outcomes

This qualification is designed to provide an industry recognised skills profile related to trade work as an Engineering Tradesperson - Fabrication. Skills development is usually undertaken through an Australian Apprenticeship arrangement where the mix of on and off-the-job training is specified in the Training Plan associated with the Contract of Training between the employer and apprentice.

The Certificate III in Engineering – Fabrication Trade gives you the training you need to start your career as a qualified engineering tradesperson. You will develop your skills in metal fabrication, earth moving welding and fabrication, structural steel fabrication, sheet metal work, welding and the use of related computer-controlled equipment.

## Duration

**Up to 4 years.**

Course duration may vary depending on your prior knowledge, skills and experience. If studying via an apprenticeship pathway this qualification is delivered face to face over a four (4) year period.

## Training Locations

- » **KTEC (Sherwood)**
- » **Approved Customer Sites.**

## Recognition of Prior Learning (RPL)

If you are currently working in the engineering industry and have more than 3 years' experience, please talk to a KTA representative about RPL. Our specialist trainers can develop a tailored training plan for you based on your existing skills, knowledge and experience.

## 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.

## Entry Requirements

Eligible participants are normally employed by an employer who works within the engineering industry.

KTA recognises that not all participants will have the same level of ability in relation to reading, writing and performing calculations. All participants enrolling into a nationally recognised qualification will undertake a Language, Literacy and Numeracy (LLN) Quiz, which is conducted online via LLN Robot. LLN Robot is an online system that combines Australian Core Skills Framework (ACSF) Testing, Course Profiling and LLN Support.

## How to apply and Enrol

Obtain an Apprenticeship in MEM30305, or if you have current existing knowledge, skills and experience, then complete a RPL Application. Enrolments can be made directly through the Komatsu Training Academy.

## Course Contents

### Year 1

|            |   |
|------------|---|
| MSAENV272B | Participate in environmentally sustainable work practices               |
| MEM13014A  | Apply principles of OH&S in the work environment                        |
| MEM11011B  | Undertake manual handling   |
| MEM16007A  | Work with others in a manufacturing, engineering or related environment |
| MEM16006A  | Organise and communicate information                                    |
| MEM16008A  | Interact with computing technology                                      |
| MEM12023A  | Perform engineering measurements  |
| MEM12024A  | Perform computations  |
| MEM14004A  | Plan to undertake a routine task  |
| MEM18001C  | Use hand tools  |
| MEM18002B  | Use power tools/hand held operations                                    |
| MEM09002B  | Interpret technical drawings  |
| MEM14005A  | Plan a complete activity  |
| MEM15002A  | Apply quality systems   |
| MEM15024A  | Apply quality procedures  |
| MEM05052A  | Apply safe welding practices  |
| MEM05007C  | Perform manual heating and thermal cutting                              |
| MEM05012C  | Perform routine manual metal arc welding                                |

### Year 2

|           |  |
|-----------|--|
| MEM05005B | Carry out mechanical cutting                       |
| MEM05051A | Select Welding Processes                           |
| MEM05050B | Perform routine gas metal arc welding              |
| MEM05049B | Perform routine gas tungsten arc welding           |
| MEM03003B | Perform sheet & plate assembly                     |
| MEM05015D | Weld Using Manual Metal Arc Welding Process (MMAW) |
| MEM05017D | Weld Using Gas Metal Arc Welding Process (GMAW)    |
| MEM05019D | Weld using gas tungsten arc welding process        |

### Year 3

|           |  |
|-----------|--|
| MEM05037C | Perform Geometric Development                                |
| MEM05010C | Apply Fabrication, Forming & Shaping Techniques              |
| MEM05011D | Assemble Fabricated Components                               |
| MEM05036C | Repair/replace/modify fabrications                           |
| MEM05018C | Perform advanced welding using gas metal arc welding process |
| MEM12007D | Mark off/out structural fabrications and shapes              |
| MEM05004C | Perform routine oxy acetylene welding                        |
| MEM05006C | Perform brazing and/or silver soldering                      |
| MEM17003A | Assist in the provision of on the job training               |



**MEM30205**

## Certificate III in Engineering – Mechanical Trade



This qualification will provide you with the skills and knowledge necessary to become a mechanical fitter tradesperson.

### Course Costs

Students enrolling via an apprenticeship pathway may be eligible for subsidised training. Eligibility and student contribution fees vary state by state. Please contact Komatsu Training Academy for further information.

### Learning Outcomes

This qualification is designed to provide an industry recognised skills profile related to trade work as an Engineering Tradesperson – Mechanical. Skills development is usually undertaken through an Australian Apprenticeship arrangement where the mix of on and off-the-job training is specified in the Training Plan associated with the Contract of Training between the employer and apprentice.

The Certificate III in Engineering – Mechanical Trade gives you the skills and knowledge you need to start your career as a qualified engineering tradesperson. You will learn how to design, assemble, manufacture, install, modify, test, troubleshoot, commission, maintain and service all mechanical equipment, machinery, fluid power systems, stationary and mobile equipment.

### Duration

**Up to 4 years.**

Course duration may vary depending on your prior knowledge, skills and experience. If studying via an apprenticeship pathway this qualification is delivered face to face over a four (4) year period.

### Training Locations

- » **KTEC (Sherwood)**
- » **Approved Customer Sites.**

### Recognition of Prior Learning (RPL)

If you are currently working in the engineering- mechanical industry and have more than 3 years' experience, please talk to a KTA representative about RPL. Our specialist trainers can develop a tailored training plan for you based on your existing skills, knowledge and experience.

### 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.

### Entry Requirements

Eligible participants are normally employed by an employer who works within the engineering -mechanical industry.

KTA recognises that not all participants will have the same level of ability in relation to reading, writing and performing calculations. All participants enrolling into a nationally recognised qualification will undertake a Language, Literacy and Numeracy (LLN) Quiz, which is conducted online via LLN Robot. LLN Robot is an online system that combines Australian Core Skills Framework (ACSF) Testing, Course Profiling and LLN Support.

### How to apply and Enrol

Obtain an Apprenticeship in MEM30205, or if you have current existing knowledge, skills and experience, then complete a RPL Application. Enrolments can be made directly through the Komatsu Training Academy.

## Course Contents

### Year 1

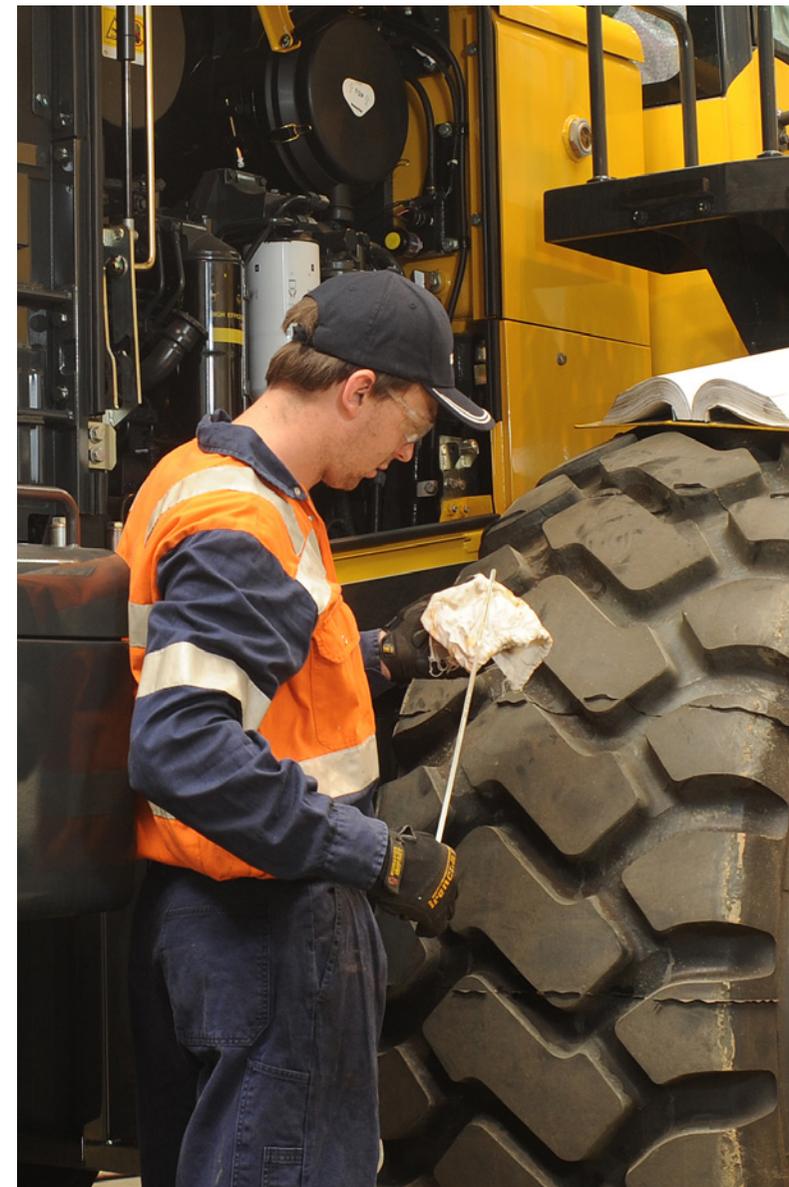
|            |   |
|------------|---|
| MSAENV272B | Participate in environmentally sustainable work practices               |
| MEM13014A  | Apply principles of OH&S in the work environment                        |
| MEM11011B  | Undertake manual handling   |
| MEM16007A  | Work with others in a manufacturing, engineering or related environment |
| MEM16006A  | Organise and communicate information                                    |
| MEM16008A  | Interact with computing technology                                      |
| MEM12023A  | Perform engineering measurements  |
| MEM12024A  | Perform computations  |
| MEM14004A  | Plan to undertake a routine task  |
| MEM18001C  | Use hand tools  |
| MEM18002B  | Use power tools/hand held operations                                    |
| MEM09002B  | Interpret technical drawings  |
| MEM14005A  | Plan a complete activity  |
| MEM15002A  | Apply quality systems   |
| MEM15024A  | Apply quality procedures  |
| MEM05052A  | Apply safe welding practices  |
| MEM05007C  | Perform manual heating and thermal cutting                              |
| MEM05012C  | Perform routine manual metal arc welding                                |
| MEM18055B  | Dismantle, replace and assemble engineering components                  |

### Year 2

|           |   |
|-----------|---|
| MEM12002B | Perform electrical/electronic measurement           |
| MEM18030B | Diagnose and rectify low voltage electrical systems |
| MEM18024B | Maintain engine cooling systems                     |
| MEM18032B | Maintain induction/exhaust systems                  |
| MEM18041B | Maintain steering systems                           |
| MEM18035B | Diagnose and rectify braking systems                |
| MEM18044C | Diagnose and rectify drive line and final drives    |

### Year 3

|           |  |
|-----------|--|
| MEM18033B | Perform engine bottom-end overhaul                                   |
| MEM18029B | Tune diesel engines  |
| MEM18026C | Test compression ignition fuel systems                               |
| MEM18043C | Diagnose and rectify automatic transmissions                         |
| MEM18047B | Diagnose and maintain electronic controlling systems on mobile plant |
| MEM18052B | Maintain fluid power systems for mobile plant                        |
| MEM17003A | Assist in the provision of on the job training                       |



# Skills gap holding you back? Bridge it with Komatsu Training Academy Short Courses



Komatsu Training Academy offers comprehensive training, consisting of a number of industry-developed nationally accredited Short Courses and workshops that have been designed to meet the needs of various levels of industry knowledge and experience, while providing cost effective training opportunities for businesses and individuals.

## Short Courses

Short Courses available through Komatsu Training Academy include:

### HSE-Specific Education and Training

|                    |   |
|--------------------|---|
| <b>CPCCWHS1001</b> | Prepare to work safely in the construction industry |
| <b>HLTAID001</b>   | Provide cardiopulmonary resuscitation               |
| <b>HLTAID003</b>   | Provide first aid                                   |
| <b>RIIWH202D</b>   | Enter and work in confined spaces                   |
| <b>RIIWH204D</b>   | Work safely at heights                              |
| <b>TLILIC0003</b>  | Licence to operate a forklift truck                 |
| <b>UETTDRRF06B</b> | Perform rescue from a live LV panel                 |

### Plant Operator Training

|                   |  |
|-------------------|--|
| <b>RIIHAN308F</b> | Load and unload plant  |
| <b>RIIMPO318F</b> | Conduct civil construction skid steer loader operations        |
| <b>RIIMPO319E</b> | Conduct backhoe / loader operations                            |
| <b>RIIMPO320F</b> | Conduct civil construction excavator operations                |
| <b>RIIMPO321F</b> | Conduct civil construction wheeled front end loader operations |
| <b>RIIMPO323E</b> | Conduct civil construction dozer operations                    |
| <b>RIIMPO324F</b> | Conduct civil construction grader operations                   |
| <b>RIIMPO325E</b> | Conduct civil construction scraper operations                  |
| <b>RIIMPO337E</b> | Conduct articulated haul truck operations                      |
| <b>RIISAM301E</b> | Test operational functions of vehicles and equipment           |
| <b>RIIVEH304D</b> | Conduct tip truck operations                                   |

### Advanced Technical Training

|                    |   |
|--------------------|---|
| <b>UEENEEE101A</b> | Apply Occupational Health and Safety regulations, codes and practices in the workplace                |
| <b>UEENEPP022A</b> | Disconnect and reconnect 3.3kV electric propulsion components of self-propelled earth moving vehicles |

Komatsu Training Academy can also work with you to develop specific training and educational programs to meet your customised learning needs. Contact us today to discuss how we can tailor a program to increase your operational productivity while meeting your business goals and objectives. Please call us on 1300 390 377.

## RIISAM301E

# Test Operational Functions of Vehicles and Equipment



One of our most popular short courses is the accredited unit: 'RIISAM301E Test operational functions of vehicles and equipment'. This unit of competency is ideal for people working in operational roles who are required to have the knowledge and skills necessary to "move and test" various vehicles or pieces of equipment, within a large range of industry sectors.

This unit is ideal for participants who use a range of machinery on their sites, including excavators, dozers, graders, wheel loaders, trucks etc. Upon completion of this course each participant will receive a **nationally recognised Statement of Attainment** for their records.

### Delivery Options

This course is delivered face to face and is generally a one-day course. A typical course runs from 8:30 am – 5.00pm.

### Learning Outcomes

During the one day course theory and practical elements will cover basic moving and operational testing of various machinery types, vehicles and equipment.

Key course elements will include:

- » **planning and preparing vehicles and equipment for testing** – accessing, interpreting and applying relevant site documentation/data; obtaining and interpreting emergency procedures and WHS requirements; obtaining required resources; and workplace activity co-ordination.
- » **physical testing of vehicles and equipment** – carrying out pre-start, start-up, shut-down and isolation procedures; moving and relocating machinery for testing purposes; identifying and rectifying faults/reporting monitoring systems warning and alarms; arranging for corrective action to be taken; recognising and responding to hazardous/emergency situations.
- » **completing the testing sequence** – cleaning, maintaining and storing equipment and tools; restoring the worksite and completing all required records and site/WHs documentation.

After completing this unit, participants will have gained a clear understanding of testing operational functions of different machine types as part of their assessment requirements. A proficiency card will also be provided, which notes the machine types the participant was deemed competent on. This card is often useful when visiting client's on-site.

### Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield**
- » **Approved Customer Sites.**

### 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.

### 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.

## HLTAID001 and HLTAID003

# Provide Cardiopulmonary Resuscitation and Provide First Aid



### HLTAID001 Provide Cardiopulmonary Resuscitation

Upon completion of this course each participant will receive a **nationally recognised Statement of Attainment** for their records.

#### Course Overview

Komatsu Training Academy's Provide CPR course complies with the Australian Resuscitation Council (ARC) Guidelines relating to the provision of Cardiopulmonary Resuscitation.

#### Learning Outcomes

- » Learn the First Aid method of **DRSABCD**:
  - ▶ **D**anger
  - ▶ **R**esponse
  - ▶ **S**end for help
  - ▶ **A**irway
  - ▶ **B**reathing
  - ▶ **C**PR
  - ▶ **D**efibrillation

- » Implement DRSABCD action plan
- » How to respond to emergency situations
- » Managing unconscious casualties
- » Cardiopulmonary Resuscitation (CPR) procedures
- » Using a defibrillator (AED)
- » Legal issues in first aid
- » Infection control.

### HLTAID003 Provide First Aid

Upon completion of this course each participant will receive a **nationally recognised Statement of Attainment\*** for their records.

*\*Note: This unit of competence incorporates the content of HLTAID001 - Provide cardiopulmonary resuscitation (CPR).*

#### Course Overview

Komatsu Training Academy's Provide First Aid course complies with the Australian Resuscitation Council (ARC) Guidelines relating to the provision of first aid.

#### Learning Outcomes

- » The basic ethics and theory involved in first aid practice
- » The measures that need to be taken to effectively deal with issues concerning major or minor injury and illness
- » The most important management steps that need to be undertaken when dealing with potentially critical conditions
- » Basic health and safety knowledge that is required when dealing with first aid situations
- » The principles, procedures and standard precautions that need to be undertaken to control infection and its spread
- » You will master the knowledge of 'Chain of Survival'
- » You will learn the skills a First Aider requires and what limitations you should be aware of
- » How and when an Automated External Defibrillator (AED) should be used.

You will learn first aid management of:

- » **Injuries:** Cold and crush injuries, eye and ear injuries, head, neck and spinal injuries; minor skin injuries; needle stick injuries; soft tissue injuries including sprains, strains and dislocations
- » **Burns:** From thermal, chemical, friction, or electrical contact
- » **Environmental Impact:** Hypothermia, hyperthermia, dehydration or heat stroke Envenomation:
- » **Envenomation:** From a snake, spider, insect and marine bites/stings
- » **Medical conditions:** Such as cardiac conditions, epilepsy, diabetes, asthma, and other respiratory conditions
- » **Substance Misuse:** High intake of common drugs and alcohol, including illicit drugs
- » **Stress Management:** Techniques and available support
- » **Other Conditions:** Allergic reactions, bleeding, chest pain, choking/airway obstruction, fractures, near drowning, respiratory diseases, seizures, shock, stroke, altered or loss of consciousness, excessive intake of poisoning and toxic substances (including chemical contamination)
- » As per CPR learning outcomes.

## Delivery Options

The following delivery option is available for **HLTAID001** Provide cardiopulmonary resuscitation:

- » Face-to-face training  
Half day face to face training (4 hours).

The following delivery options are available for **HLTAID003** Provide first aid course:

- » Flexible delivery  
One full day of training (8 hours) plus a question and answer workbook (available online) to be completed independently prior to the day of practical training
- » Face-to-face training  
Two full days of face to face training (16 hours).

## Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield**
- » **Rutherford**
- » **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.

## Entry Requirements

- » Participants must have the physical ability to provide resuscitation by kneeling on the floor and performing two (2) minutes of uninterrupted CPR
- » Participants must be at minimum of fourteen (14) years of age  
Participants under the age of 18 will be required to provide a signed parental consent form prior to attending the course.

## 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.

## Validity

HLTAID003 is valid for three (3) years from the date of the course. It is required that the CPR component of this course is to be updated every 12 months to keep your certificate current.



## UEENEEP022A

# Disconnect and Reconnect 3.3kV Electric Propulsion Components of Self-propelled Earth Moving Vehicles (Restricted Electrical Licence)



### Course Overview

This course is designed for fitters/mechanics working on 3.3kV electric propulsion components of an engine driven, self-propelled earth moving 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 earth moving 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 earth moving 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

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **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.

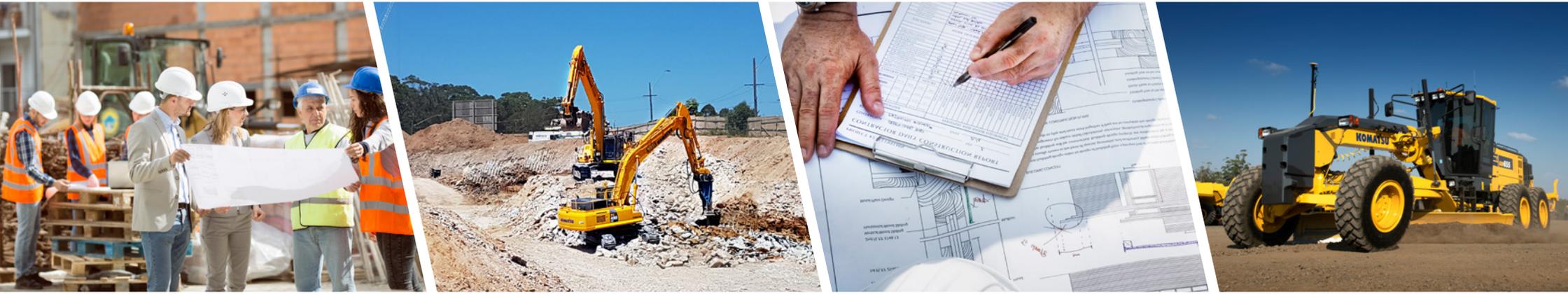
### Entry Requirements

- » 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 UEENEEE101A - Apply Occupational Health & Safety regulations, codes & practices in the workplace; which must be completed online prior to enrolling into this course. Strict eligibility criteria applies to those participants wishing to enrol into this course. Criteria varies from State to State. Please contact KTA for further information prior to enrolment.

## CPCWHS1001

# Prepare to Work Safely in the Construction Industry (White Card)



### Course Overview

Komatsu Training Academy's prepare to work safely in the construction industry course is a nationally recognised safety induction to ensure you are able to work legally on construction sites nationwide.

### Delivery Options

This course is delivered face to face and generally takes around six hours to complete. A typical course runs from 8:30 am - 3:30pm.

### Learning Outcomes

- » General safety induction for construction sites
- » Identify and understand roles, responsibilities and rights of duty holders
- » Understand WHS communication and reporting processes
- » Apply the principles of risk management
- » Identify common hazards and control measures
- » Interpret and apply safety information and documentation
- » Use safe work practices
- » Respond to WHS incidents.

### Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield**
- » **Rutherford**
- » **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.

### Entry Requirements

- » Minimum 15 years of age by the course commencement date
- » Have sound levels of written and spoken English to be able to complete assignments.

### 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.

# Enter and Work in Confined Spaces



The Confined Space Entry training equips authorised employees with the knowledge and skills to safely enter and operate in confined spaces, avoiding exposure to hazardous substances, flammable or explosive conditions, collapses or other safety or health issues that could cause injury, illness or death.

### Course Overview

This nationally accredited course is to provide employees with the necessary training to enter and work in a confined space. This unit covers the control of entry to confined spaces, for maintenance, servicing of vessels of other necessary reasons.

This course is aimed towards employees that may need to work in a confined space or supervisors of employees who work in confined spaces, also those that maintain confined space equipment.

Though there are no qualification prerequisites, participants must be physically able to enter confined spaces.

### Delivery Options

This course is delivered face to face and is generally a one-day course. A typical course runs from 8:30 am – 5:00pm.

### Learning Outcomes

- » Identifying confined spaces
- » Identification and control of hazards
- » Australian Standards and relevant legislation
- » Roles and responsibilities of management and employees
- » Risk assessments and hierarchy of hazard controls
- » Work according to a confined space permit
- » Work site policy and procedures
- » Write work plans and risk assessments
- » Lockout and tag out methods of isolation
- » Atmospheric monitoring and gas detection
- » Fall protection equipment
- » Practical entry into a confined space
- » Safety and emergency procedures.

### Training Locations

- » **KTEC (Sherwood)**
- » **Approved Customer Site.**

### 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.

### 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.

### 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.

# RIIWHS204D

## Work Safely at Heights



### Course Overview

This nationally recognised course covers theoretical and practical aspects of working at height.

During the course we will assist you to develop safe work method statements and risk assessments for working at height. All workers who conduct or supervise tasks whilst at height will find this course beneficial to workplace safety and will enable you to comply with current WHS legislation.

Training can be conducted at your work site or off-site at one of our purpose-built training facilities. Work at heights training is focused on fall prevention rather than fall arrest. It is designed to equip workers with the knowledge and skills to safely work in any height situation, primarily being aimed at general construction, maintenance, mining, large factories or other work situations where work is conducted in a place where a fall from one level to another is possible.

Our working at heights training course will run the participants through areas including statutory and regulatory authority requirements, heights safety systems, safety equipment and consideration to facilitate working safely at heights, safe shifting and handling of tools and material, and the processes of providing for safe work practices.

### Delivery Options

This course is delivered face to face and is generally a one-day course. A typical course runs from 8:30 am – 5.00pm.

### Learning Outcomes

- » Interpret and apply technical and safety information for working at heights
- » Assess hazards and risk associated with working at heights and implement control methods
- » Select wear and care for personal protective equipment
- » Identify required safety systems including fall protection and associated equipment
- » Check that fitting, adjusting and anchoring of fall protection and associated equipment is correct
- » Perform work safely at heights
- » Safe shifting and handling of tools and materials
- » Adhere to statutory and regulatory authority requirements
- » Comply with heights safety systems
- » Comply with safe work methods
- » Locate and apply relevant documentation, policies and procedures.

### Training Locations

- » KTEC (Sherwood)
- » Approved Customer Site.

### 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.

### 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.

### 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.

## TLILIC0003

# Licence to Operate a Forklift Truck



We deliver high quality, reliable forklift training solutions that will give you the skills to meet the highest standards of safety and compliance as a Forklift Operator. When you complete the High Risk Unit of Competency **TLILIC0003 Licence to Operate a Forklift Truck** with Komatsu Training Academy you will receive a Statement of Attainment that will give you the skills to safely operate a Forklift in the workplace.

### Course Overview

This unit of competency specifies the skills and knowledge required to operate a forklift truck safely. A Forklift truck is a powered industrial truck equipped with lifting media made up of a mast and an elevating load carriage to which is attached a pair of fork arms or other arms that can be raised 900 mm or more above the ground, but does not include a pedestrian-operated truck or a pallet truck.

A person performing this work is required to hold a Forklift Truck (LF) High Risk Work (HRW) Licence in order to remain employed, or gain employment, as an operator of these vehicles.

Successful completion of our Forklift Course will result in you being able to apply to the relevant State Licensing Department in order to apply to obtain a Forklift Licence (LF). For more information simply contact us to arrange a training event on your site, or alternatively at one of our purpose built technical training facilities.

### Delivery Options

Day 1 will be a combination of theory activities in the classroom and practical activities in the warehouse. Day 2 will be a full practical skills day covering the basics of operation, load handling and working in pallet racking with Day 3 concluding with an formal assessment of the theoretical and practical knowledge and skills learned throughout the course, depending upon individual State compliance requirements.

### Learning Outcomes

- » WH&S legislation
- » Risk and hazards
- » General inspections and preparation of work site requirements
- » Plan and prepare work
- » Conduct routine checks and equipment maintenance
- » Operate forklift truck
- » Shift loads
- » Shut down and secure forklift truck.

### Duration

As this course has High Risk Licencing outcomes it is strictly governed by individual State Licencing requirements and as such course duration may vary from State to State.

The course may be run over three consecutive weekdays from 8:30 am – 4:30 pm at selected sites.

### Training Locations

- » **KTEC (Sherwood)**
- » **Welshpool**
- » **Fairfield**
- » **Rutherford**
- » **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.

## Entry Requirement

This may vary from State to State however generally the following will apply:

- » High Risk Work Licence Assessments can only be undertaken at the age of 18 years or over
- » Logbooks recording forklift operating hours under supervision (may be required in certain circumstances)
- » ID to a total of 100 points eg. current Drivers Licence / Passport etc. to be supplied prior to enrolment
- » ID requirement may vary from State to State which will be informed of at time of course enrolment
- » Applicants will need to have a basic knowledge and understanding of the English language
- » PPE must be worn by participants on all occasion when attending a Forklift Course at any site in any State. This includes steel cap boots, long pants, long sleeves, (high vis shirt if possible otherwise long sleeves with a high vis vest) and a safety hard hat.

## 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.





Komatsu Training Academy is a Registered Training Organisation (RTO) specifically developed to assist our construction, quarry and mining customers by delivering nationally recognised and customised training where they need it – online, on-site, at customers' premises or at our own dedicated training facilities. Our offerings include a mix of fully accredited, nationally recognised courses and modules, along with customised training.

RTO No: 90996

Form No: ZESB099934\_AUG2019

