

SAFETY THROUGH COMPETENCY

moxi

STATEMENT OF CAPABILITIES

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MOXI

FROM THIS POINT FORWARD

## FROM THE MD...

Recent years have been very exciting at MOXI. From expanding operations and increasing breadth of our service offerings to exceeding expectations on large projects in Australia such as Gorgon and Ichthys as well as overseas.

MOXI has grown from a small Perth office operation to a multi-location premium provider of services to the industrial electrical industry, with permanent outlets in Perth, Darwin, Singapore, Houston and Malaysia with offices in China and Philippines pending in 2016.

One of our most exciting recent milestones was the opening of our state of the art Singapore facility in early 2013 with Houston based partner, ATEC.

With similar facilities in the pipeline and a growing market for EEHA inspection, certification and auditing, now is certainly an exciting time to have MOXI.

7 Locations  
around the  
globe

Sam Zacha

Managing Director

## ABOUT MOXI

MOXI was formed in 2004 in response to the increasing needs for quality **competency** development services internationally. MOXI delivers Training, Inspection and auditing services to the oil and gas, mining, mineral processing and infrastructure industries – **worldwide**.

Competency is a measurement of **applied knowledge** via practical evidence as demonstrated by the individual to agreed industry criteria.

All MOXI trainers, assessors and inspectors are experienced and accredited **professionals** in their fields of expertise and hold current applicable qualifications, as required under the Australian Standards AS/NZS 4761 and the National Vocational Education and Training Regulator (ACT, 2011) (NVR).

In 2012 MOXI commenced operations to establish and implement a full suite of EEHA services including Inspections, Classification, Auditing and Consulting to support the Energy and infrastructure industries of Australia and globally.

### MOXI Vision

To provide unique, focussed solutions for the management of competency driven training needs to the oil and gas, mining, mineral processing and infrastructure industries worldwide.

MOXI aim to be recognised as the Premier Provider of EEHA Inspection, Verification and Training services, delivering quality and vision and to provide clients with the satisfaction of gaining value-add solutions that derive management outcomes.

### MOXI Mission

MOXI will ensure a high quality of service delivery through a flexible team-working approach based upon best practices.

MOXI will liaise closely with industry to evaluate clients' needs and will review service provision continuously in order to verify that these requirements are met.

## WHAT WE DO

MOXI delivers the EEHA services you need to get the job done, safely, efficiently and to a high standard. Whether you need a short course for 8 personnel, a 6 month tailored program for 500 personnel, a single site inspection or complete management of all EEHA maintenance and EEHA personnel, MOXI delivers.





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MAINTENANCE & INSPECTION SERVICE  
MENU

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## MAINTENANCE & INSPECTION SERVICE MENU

MOXI offer a range of EEHA (Ex) Inspection services: These services are then individually customized to fulfill the unique requirements and challenges of your site.

### Full EEHA Maintenance and Inspection Services

### Pre-Commissioning and Commissioning (Onshore) Inspection

### Competency Inspection

**Inspections  
have been  
conducted in 5  
countries**

Australia, Malaysia,  
Singapore, South  
Korea, New Zealand

### Full EEHA Maintenance and Inspection Services

1. Preparation and Maintenance of Client's Ex Equipment Register
2. Maintenance of Ex Equipment and Ex Enclosures
3. Installation and Maintenance of Lighting Systems
4. Installation of Small Design Scopes / Modifications
5. Implementation of Ex Strategies to Comply with Clients Maintenance Plan
6. Provision of Competency Assured Technicians
7. General Electrical Contracting Offshore and Onshore Including Cabling and Cable Management Systems
8. Core Crew EEHA Electrical Support
9. Trace Heating Maintenance and Repair
10. Fire and Gas Cable and Detector Installations
11. Detailed Inspections and Audits on behalf of Lloyds of London and DNV
12. Detailed Inspections in compliance with appropriate regulatory requirements (anywhere in the world)

### Pre-Commissioning and Commissioning (Onshore) Inspection

1. Demonstration of how Ex Integrity is maintained after the completion of the detailed Ex Inspection.
2. Demonstration of how Ex integrity is maintained after the sign off of detailed Ex Inspections when outstanding punch-lists exist.
3. Offshore Hook Up and Commissioning Inspection
4. E&I Pre-Commissioning and Commissioning personnel in the various AS/NZS Ex Inspection techniques.
5. Demonstration of how Ex Integrity is maintained after the completion of the detailed Ex Inspection.
6. Demonstration of how Ex integrity is maintained after the sign off of detailed Ex Inspections when outstanding punch-lists exist.

### Competency Inspection

1. Desk top review of the requirements of project specification to ensure requirements of AS/NZS 60079 was correctly stated.
2. Desk top review of data from the project records that demonstrates that adequate checks of personnel competency were made at the relevant stages of the project.
3. Verification of training and Competency of E & I Pre-Commissioning and Commissioning personnel in the various AS/NZS Ex Inspection techniques.
4. Verification of training and Competency of Ex Inspections.
5. Sighting of competency records of ALL Ex inspectors, and verification that they meet project and AS/NZS 60079 requirements.



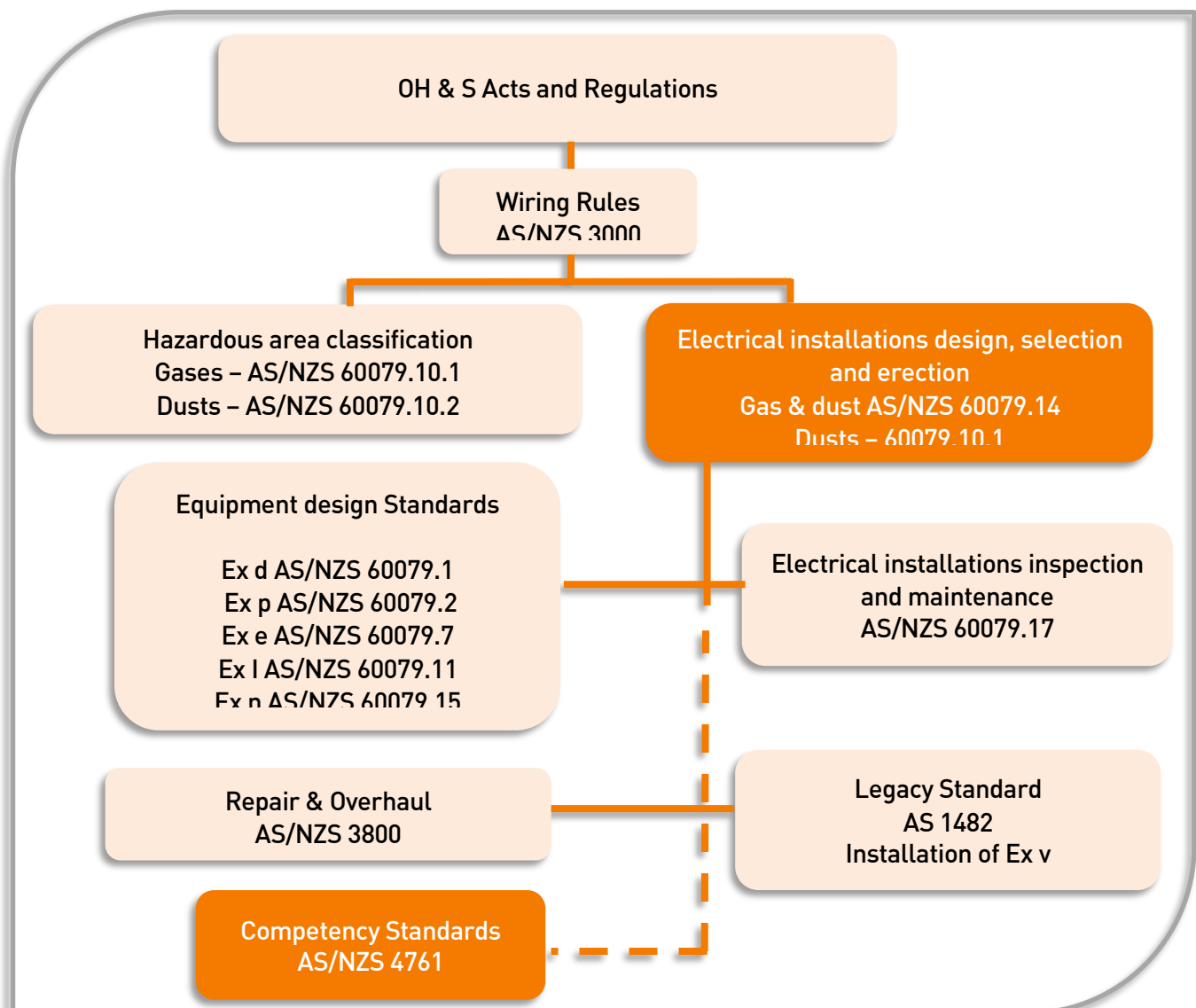
## A MESSAGE FROM MOXI TEAM

The regulation of Electrical Equipment in Hazardous areas in Australia can trace its origins back to the latter part of the 1800's UK coal mining era, an unfortunate era which saw quite a few major disasters with tragically high loss of life. The following regulation of the then coal mining industry and the initial regulation of the North Sea oil & gas industry have both contributed to the development of what has now become Australia's own complex EEHA regulatory scheme.

Below is a chart outlining the relationship of Australian/New Zealand standards that regulate EEHA in the Australian context.

To ensure proper compliance with Australian regulation, those working with personnel planning, constructing, maintaining, or otherwise working within the sphere of EEHA need to have a thorough understanding of these standards and their legal implications.

To help facilitate the legal compliance at all levels of organisational requirements, MOXI inspectors and maintenance personnel have an average of ten years industry experience whilst our trainers average over thirty years of industry and training experience. Our team carries all necessary training and assessing and licensed awards.



## AUDIT SERVICE MENU

MOXI offer a range of Audit services:

[EEHA Competency Audit](#)

[EEHA Dossier Audit](#)

[Pre-Commissioning and Commissioning \(Onshore\)](#)

[Offshore Hook-up and Commissioning Audit](#)

[Full EEHA Audit](#)

## AUDIT OBJECTIVES

The principal objectives of the audit are as follows:

### Option 1

Confirm that the personnel involved in the Electrical Design, Hazardous Area Certification Installation and testing/inspection have the competency required by the project specifications and AS/NZS 60079 series.

### Option 2

Confirm that the data required for the Ex dossier by the project specifications and AS/NZS 60079 series exists, and is in the correct format.

### Option 3

Confirm that Ex inspections (initial and detailed) have been correctly completed.

To achieve the above the audit activities will include:

### [EEHA Competency Audit](#)

1. Desktop reviews of the requirements of project specification to ensure requirements of AS/NZS 60079 series are correctly stated.
2. Desktop review of data from the project records that demonstrates that adequate checks of personnel competency were made at the relevant stages of the project.

### [EEHA Dossier Audit](#)

1. Desktop comparison of the stated project requirements for the dossier with AS/NZS 60079.
2. On-site review of the dossier data, to verify that it exists, and that the quality of data is acceptable.

### Full EEHA Audit

1. Sample review of completed Ex inspections against the Ex register to verify that they exist.
2. Desktop sample review of completed Ex inspection sheets verify that they are correctly completed.
3. Sample review of non-conformances and that they have been remedied.
4. Sighting of competency records of ALL Ex inspectors, and verification that they meet project and AS/NZS 60079 requirements.
5. Sample review of completed Ex inspection sheets vs. the installed equipment to verify that the findings are correct.
6. Interview of a sample of the Ex inspectors to verify their knowledge and to verify how they complete the inspection sheets, and to ascertain what data they source (and from where) to complete the sheets.
7. Verification that barrier glands have been used where required by the relevant AS/NZS requirements.



### Pre-Commissioning and Commissioning (Onshore) Audit

1. Verification of training and Competency of Electrical and Instrumentation Pre-Commissioning and Commissioning personnel in the various AS/NZS Ex Inspection techniques.
2. Demonstration of how Ex Integrity is maintained after the completion of the detailed Ex Inspection.
3. Demonstration of how Ex integrity is maintained after the sign off of detailed Ex Inspections when outstanding punch-lists exist.

### Offshore Hook Up and Commissioning Inspection

1. Verification of training and Competency of Ex Inspections.
2. E & I Pre-Commissioning and Commissioning personnel in the various AS/NZS Ex Inspection techniques.
3. Demonstration of how Ex Integrity is maintained after the completion of the detailed Ex Inspection.
4. Demonstration of how Ex integrity is maintained after the sign off of detailed Ex Inspections when outstanding punch-lists exist.

## MOXI IS A NATIONALLY REGISTERED TRAINING ORGANISATION 51160

MOXI is a nationally Registered Training Organisation and is audited by ASQA (Australian Skills Quality Authority) to ensure integrity within MOXI's services and courses. MOXI has been accredited to the endorsed UEE11 training package.

All MOXI's training and assessments align with AS/NZS 60079 series as per the recommendations of SAI Global and EE-Oz.

MOXI will not provide competency to any persons as a result of inspection services, subsequent requirements for training and or assessment for the purpose of demonstrating recognised competency will be subject to a separate proposal(s) and agreement.

## MOXI IS A REGISTERED ELECTRICAL CONTRACTOR IN WESTERN AUSTRALIA EC11916

MOXI has obtained Electrical Contractor status in the state of Western Australia and is audited by Energy Safety.

All MOXI's EEHA Work aligns with AS/NZS 60079 series of standards. MOXI has been approved and is recorded on Lloyds of London Register as Authorised Ex (EEHA) Inspectors and Auditors in addition to DNV registration and Accreditation from NATO; Accreditation number ZOCG1.




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*THE PATH TO A COMPETENT  
WORKFORCE*

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## THE PATH TO A COMPETENT WORKFORCE



There are 2 paths for Australian personnel competency, depending on whether your site/ personnel are within Australia or overseas and whether your personnel hold an Australian Electrical Licence.

Outside Australia

Directly to  
AS/NZS 4761

Within Australia,

The UEE11 training package

-Developed from the AS/NZS  
Standards



## TRAINING

MOXI started out as a training company, we've been training since 2005 and in that time, we have trained over 8000 people - so we know how to do it well. We are arguably the biggest and best EEHA trainer in the Southern Hemisphere.

We offer training courses in two streams –

**Oil&Gas-** best applied to Oil & Gas production and processing or any other sites dealing with hazardous gas atmospheres such as a paint manufacturer or a distillery.

**...and Mining** - which have added material dealing with the hazards of combustible dusts are best applied for personnel working in mine sites, food processing plants, power stations, pharmaceuticals or any other environment where combustible dust hazards exist

The outcomes of MOXI courses depend on the answer to 3 questions:

1. Does the trainee hold an Australian Electrical Licence?
2. Where are the competencies obtained to be applied; within Australia or Overseas?
3. Where is the training being delivered; within Australia or Overseas?

Depending on the answers to these 3 questions the student will be issued a Statement of Attainment in partial completion of UEE42611 Certificate IV in Hazardous Areas – Electrical - the Australian EEHA training package, or a Certificate of Competency against units of competency taken directly from the AS/NZS 4761 standard.


## Courses

MOXI offer a range of courses, containing different material to suit the needs of the individual, an industry, a particular role and/or specific organisation. Like our inspection and auditing services training can also be tailor designed to meet the unique requirements of your project.

UEE42611 Certificate IV in Hazardous Areas - Electrical

- Installation, Maintenance & Detailed Inspection
  - Installation & Maintenance
  - Detailed Inspection
  - Installation & Glanding
- Planning, Maintenance Management, Overhaul and Repair
  - Preparation of Overhaul and Repair Reports
- Dossier 101
- Installation Planning
- Planning and Design
- Re-Accreditation Courses
- Full and Half day Hazardous Areas awareness courses
- Range of online e-learning short courses

MOXI can also award competencies & qualifications based on recognition of prior learning (RPL)



MOXI delivers  
services to meet  
the client's  
needs.

...Hence, training courses  
can be (and usually are)  
customised to suit the  
particular needs of a  
corporate client,

...whether you are a power  
station in South West  
Western Australia with 6 staff  
to train,

...or a global organisation with 6000  
staff to train in various electrical/  
engineering/ instrumentation roles  
across 5 countries, 3 continents and 6  
different projects...

...MOXI can offer an  
effective customised  
solution



# moxi

Global provider of Training,  
Inspections and Auditing  
services for Electrical  
Equipment in Hazardous Areas



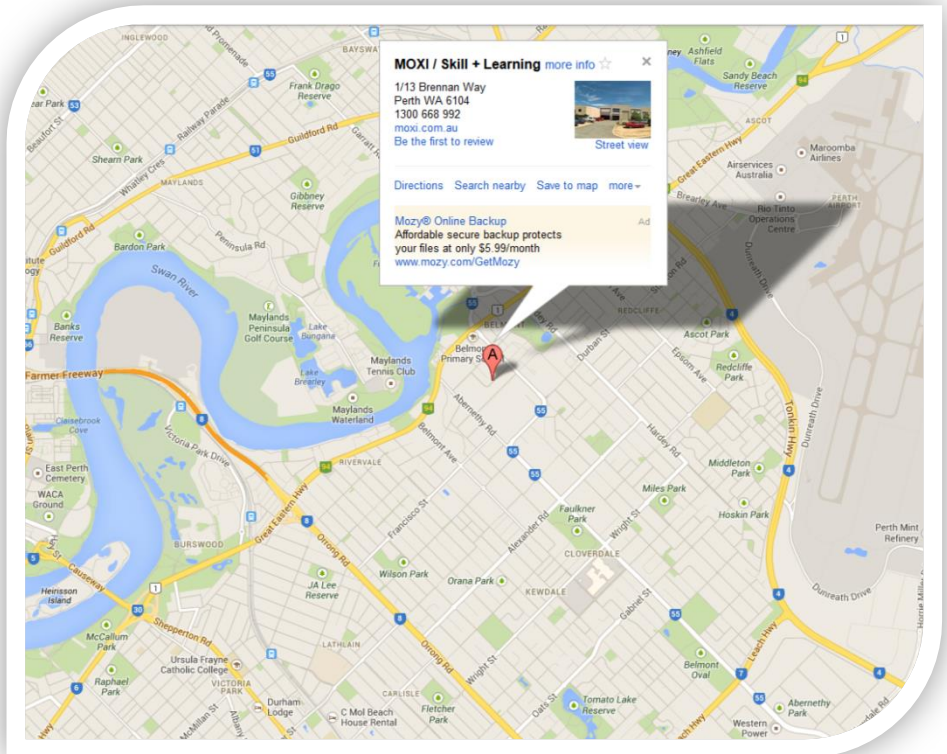
## LOCATIONS

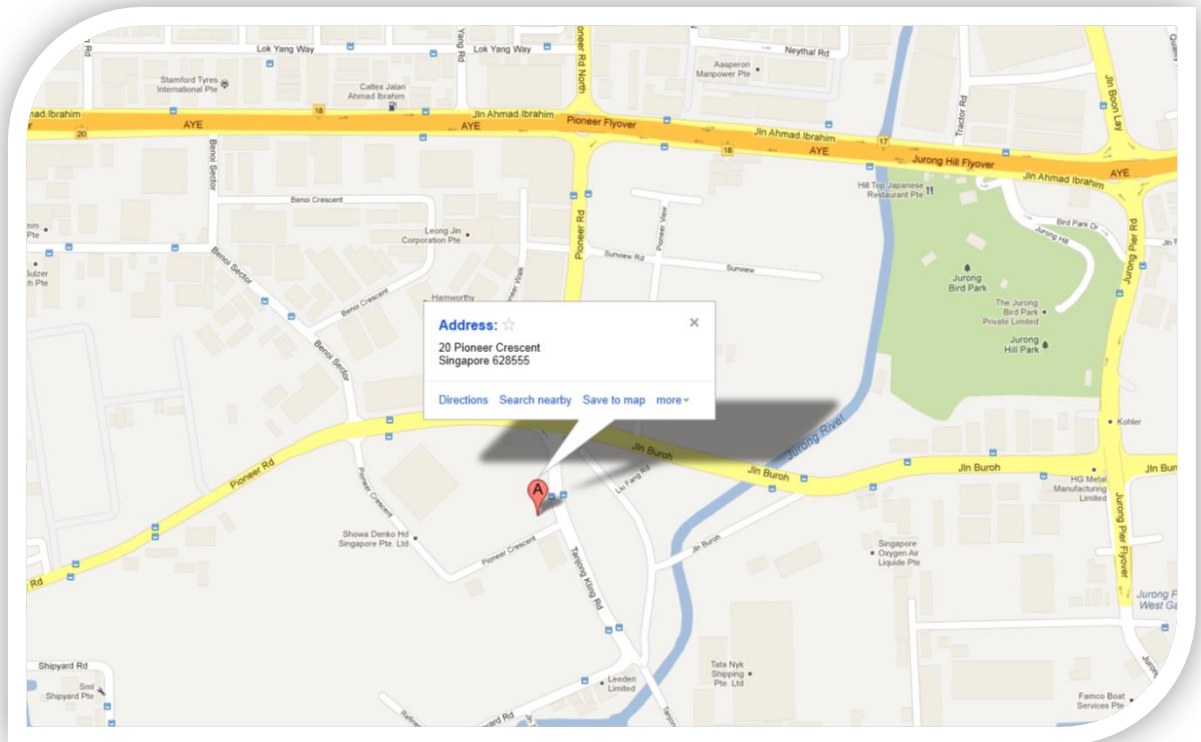
### MOXI HQ – Perth

1/13 Brennan Way | Belmont | WA | Australia | 6104

MOXI head offices are located in Perth, Western Australia.

Featuring two classrooms and a dedicated EEHA practical training workshop, MOXI HQ is ideally located to provide training and inspection services to personnel working in the WA Mining, Oil & Gas and Infrastructure industries.





## ATEC|MOXI Singapore

20 #08-01 Pioneer Crescent | West Park BizCentral | Singapore | 628555

MOXI have partnered with US competency providers ATEC to open a new state of the art facility in Singapore.

Located in the new West Biz Central development, the Singapore office features new, state of the art facilities and a dedicated team of trainers, inspectors and auditors to service South-East Asia.





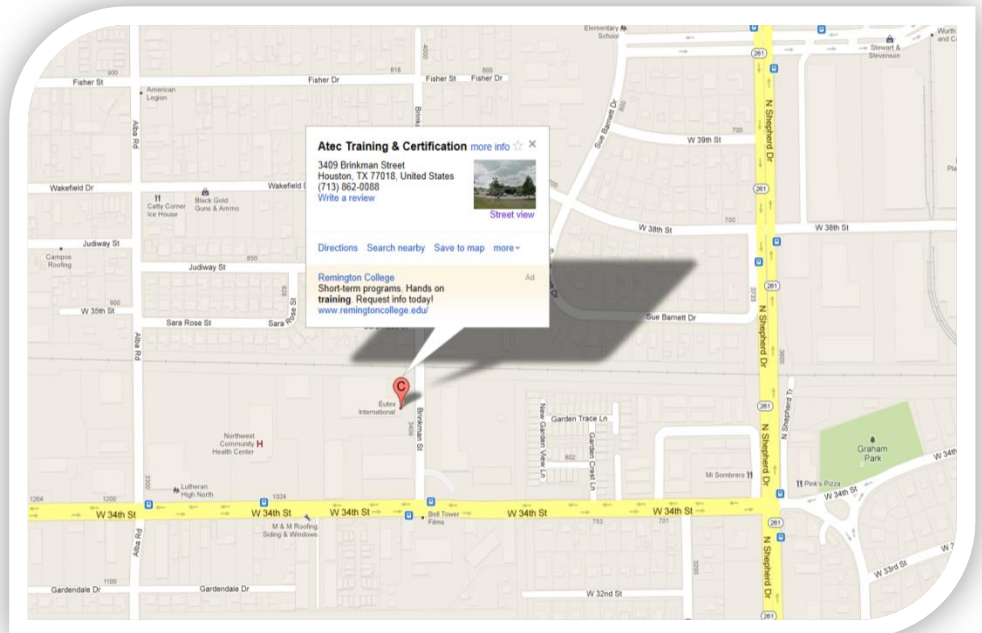
# Houston

3409 Brinkman Street | Houston | Texas | USA | 77018

MOXI provide EEHA services via partner firm ATEC, based in Houston, Texas.

The US offices feature a classroom as well as practical training facilities and a dedicated team of instructors and inspectors.

As well as Houston, ATEC operate from two locations in Canada as well as being MOXI's partner in Singapore. ATEC is ideally located and equipped for providing MOXI's EEHA Training, Inspection and Auditing services across the Americas.

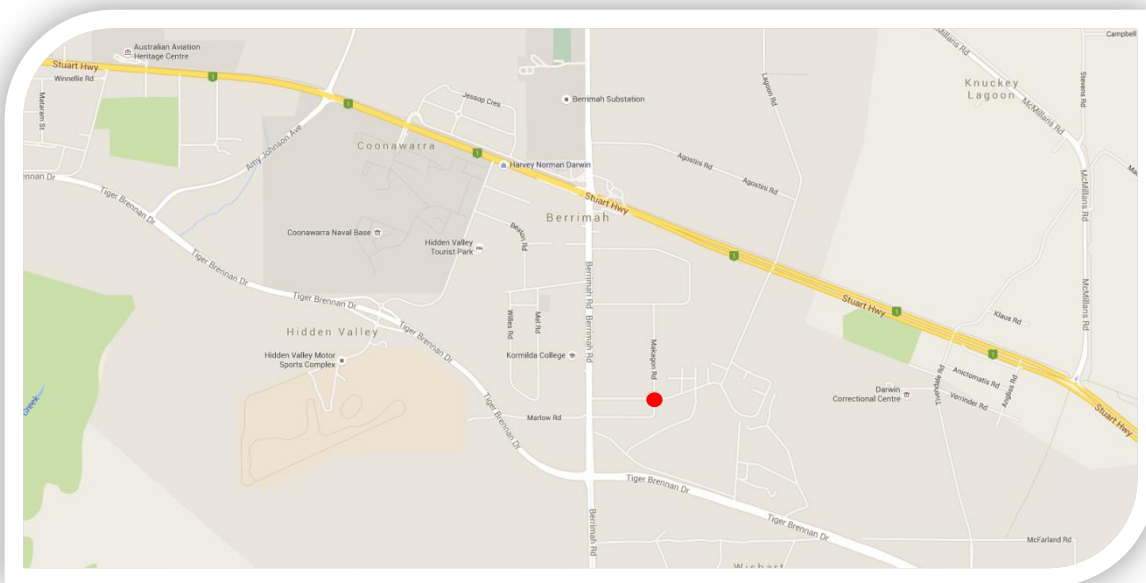




# Darwin

29 Makagon Road | Berrimah Farm | Darwin | NT | Australia |

MOXI provide EEHA training services to the Northern Territory in its specialised EEHA workshop based in Darwin



## New Zealand

MOXI provide EEHA training via The Skills Organisation, which operates throughout New Zealand.

MOXI also provide EEHA auditing and EEHA inspection services throughout the North and South Islands of New Zealand

## South Korea

MOXI provide regular training services to organisations in South Korea, especially in the shipyards of Busan. We also offer our EEHA Inspection and Auditing services.

## Worldwide

MOXI has built a reputation of being an effective and efficient world-wide provider of EEHA training, auditing and inspection services by delivering these services all over the world, on all continents.

MOXI can deliver EEHA services to almost any location on every continent. We aim to partner with our clients, wherever they are, to deliver quality services to ensure their workforce is competent to the job safely and that their EEHA environments are effectively inspected and audited to domestic and international standards.

## FOR ENQUIRIES:

✉ [enquiry@moxi.com.au](mailto:enquiry@moxi.com.au)

☎ +61 8 9479 3481

1300 668 992

📠 +61 (0)8 9479 4677 (mark for attention of: Julie Derby – *Office Manager*)

[www.moxi.com.au](http://www.moxi.com.au)

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AUSTRALIA, 6984



Auditing

Management



Inspecting



Training

Assessing