



# **EE-Oz Training Standards Australia**

## **Electrician Offshore-Onshore Trade Skills Assessment**

**March 2011**

**An Australian Government declared  
Industry Skills Council for ElectroComms  
and EnergyUtilities**



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# 1. Off Shore/On Shore Assessment – Skilled Migration

- Off Shore Assessment and issue of OTSR
  - accredited course used for Gap Training for Electrician and Refrigeration and Air Conditioning qualification
- Subclass 457 Visa Program – on shore
  - assessment and issue of OTSR
  - accredited course used for Gap Training
- TRA contracted RTOs
  - VETASSESS
  - Victoria University



## 2. Skills Recognition International (SRI)

2006 Council of Australian Governments (COAG) agreed new arrangements to make it easier for migrants with skills to work as soon as they reach Australia

COAG initiative aims to:

- assist with addressing Australian skill shortages
- provide skilled migrants with better employment opportunities on arrival in Australia
- provide industry with a skilled work ready group of employees



# 3. Countries and Trades

**TRA Offshore Skills Assessment Program for permanent migration purposes  
(through TRA-approved RTOs)**

<u>Nominated Countries</u>	<u>Nominated Occupations [ANZSCO Code]</u>
<ul style="list-style-type: none"> <li>● China</li> <li>● Fiji</li> <li>● India</li> <li>● Iran</li> <li>● Ireland</li> <li>● Korea (Sth)</li> <li>● Pakistan</li> <li>● Philippines</li> <li>● South Africa</li> <li>● Sri Lanka</li> <li>● United Arab Emirates</li> <li>● United Kingdom</li> </ul>	<ul style="list-style-type: none"> <li>● Electrician (General) [341111]</li> <li>● Electrician (Special Class) [341112]</li> <li>● Electronic Equipment Trades Worker [342313]</li> </ul>



## TRA 457 Skills Assessment Program for temporary migration purposes (through TRA-approved RTOs)

<u>Nominated Countries</u>	<u>Nominated Occupations [ANZSCO Code] assessed</u>
<ul style="list-style-type: none"> <li>● Brazil</li> <li>● China (including Hong Kong and Macau)</li> <li>● Fiji</li> <li>● India</li> <li>● Papua New Guinea</li> <li>● Philippines</li> <li>● South Africa</li> <li>● Thailand</li> <li>● Vietnam</li> <li>● Zimbabwe</li> </ul>	<ul style="list-style-type: none"> <li>● Electrical Linesworker [342211]</li> <li>● Electrician (General) [341111]</li> <li>● Electrician (Special Class) [341112]</li> </ul>

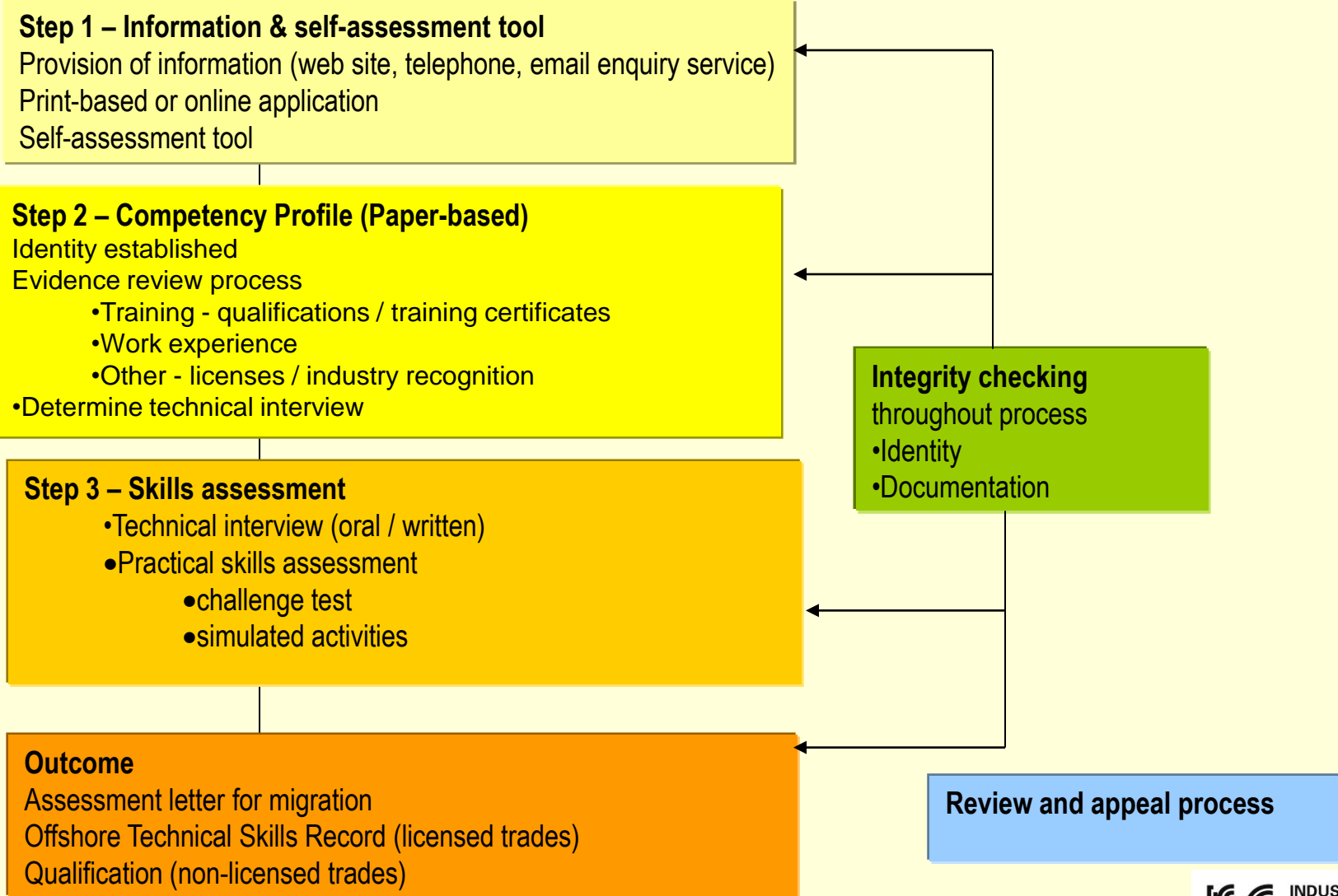


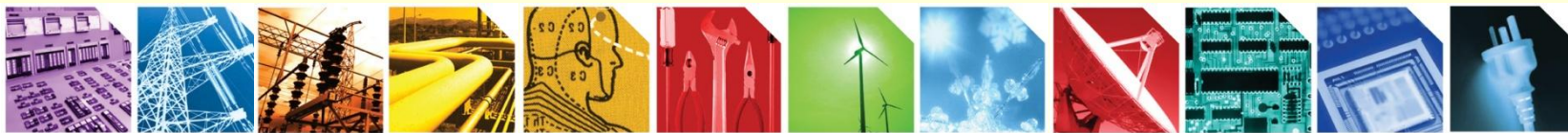
## 4. Assessment Features

- Demonstration of achievement of competency against Australian industry standards
- Assessment benchmark - AQF qualifications / units of competency
- Focus on
  - collection of quality evidence
  - practical skills assessment
- Consistent approach across each trade in all countries
- Quality assured process and integrity of results at all stages
- Successful candidates will receive Offshore Technical Skills Record (OTSR) and entitlement to apply for a provisional licensing



# 5. Assessment Process





## 6. Assessment Outcome

### Successful applicants

- assessment letter for migration purposes issued by RTO
  - **Licensed trades**
    - Offshore Technical Skills Record (OTSR)
      - entitlement to provisional licensing - includes advice on gap training in Australia

### Unsuccessful applicants

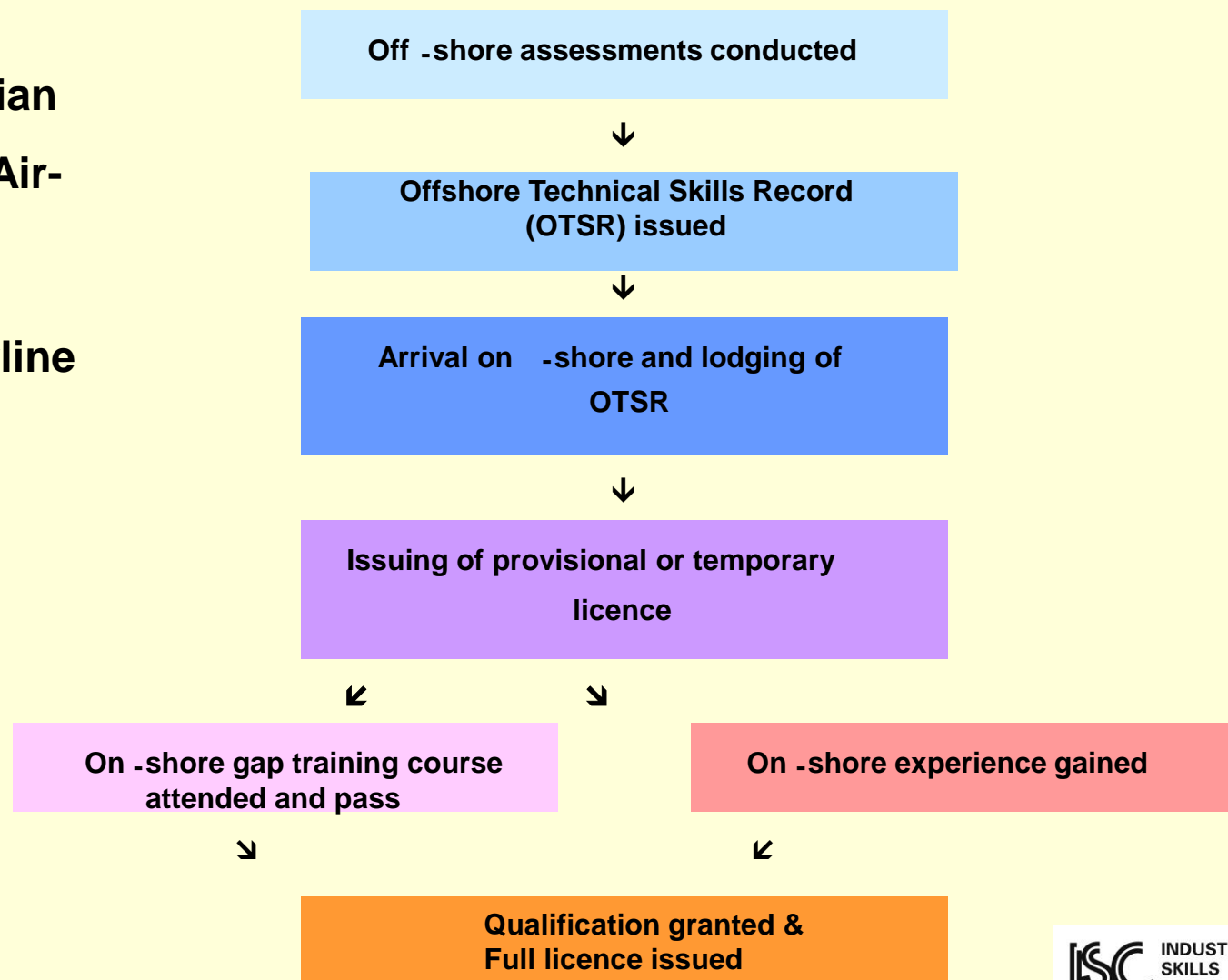
- Statement of Attainment
- Record of assessment
- Advice on skills gap training



# 7. Offshore Technical Skills Record

For:

- General Electrician
- Refrigeration & Air-Conditioning Mechanic
- Electrical Powerline
- Cable Jointers





## 8. OTSR and Licences

OTSR a nationally recognised form of documentation that provides entitlement for a provisional license. All state and territory regulatory bodies have agreed for OTSR to be accepted as a form of 'entry level' license

Licensing and registration is a state based responsibility in Australia and there are different titles for provisional licenses used in different states (for example Electrical Work Permit in Queensland, 'L' license in Victoria)

For full license / registration (will vary depending upon regulatory / licensing body):

- gap training

- work experience

New COAG agreement to work towards a national licensing system to remove inconsistencies and allow easier mobility of workers between states



# 9. OTSR Assessment Overview

- The practical assessments are conducted offshore and consist of an 8 hour simulated practical assessment that is conducted at partner venues (these are normally technical colleges).
- The candidates will be required to complete the tasks specific to the general electrician occupation.

## Task 1 Electrical Installation:

- From a given specification design, carry out and complete a functioning light and power installation within a specified time frame using safe working techniques including:
  - ✓ Switchboard design and protection
  - ✓ Test the installation and record results to verify compliance or non-compliance using a variety of test equipment.



# 9. OTSR Assessment Overview con't

## Task 2 Electrical control and fault finding:

From a circuit diagram design, connect and fault find a direct on line (DOL) starter and three phase motor circuit including:

- ✓ Stop/start station, thermal overload, star-delta configuration, overload setting.
- ✓ Answer oral questions on motor circuits.



# 9. OTSR Assessment Overview con't

## Task 3 Applied electrical knowledge:

Write answers to questions on a variety of topics including but not limited to:

- ✓ Electrical units
- ✓ Ohms Law calculations
- ✓ Single and three phase power calculations
- ✓ Impedance, inductive and reactance calculations
- ✓ Power factor
- ✓ RMS values
- ✓ Transformer turns ratios
- ✓ Measure current and voltage in an ELV circuit.

## Task 4 Electrical Safe Work Practices:

Perform a disconnect/reconnect of electrical equipment using safe working procedures in a logical manner and test the disconnected equipment before reinstallation.

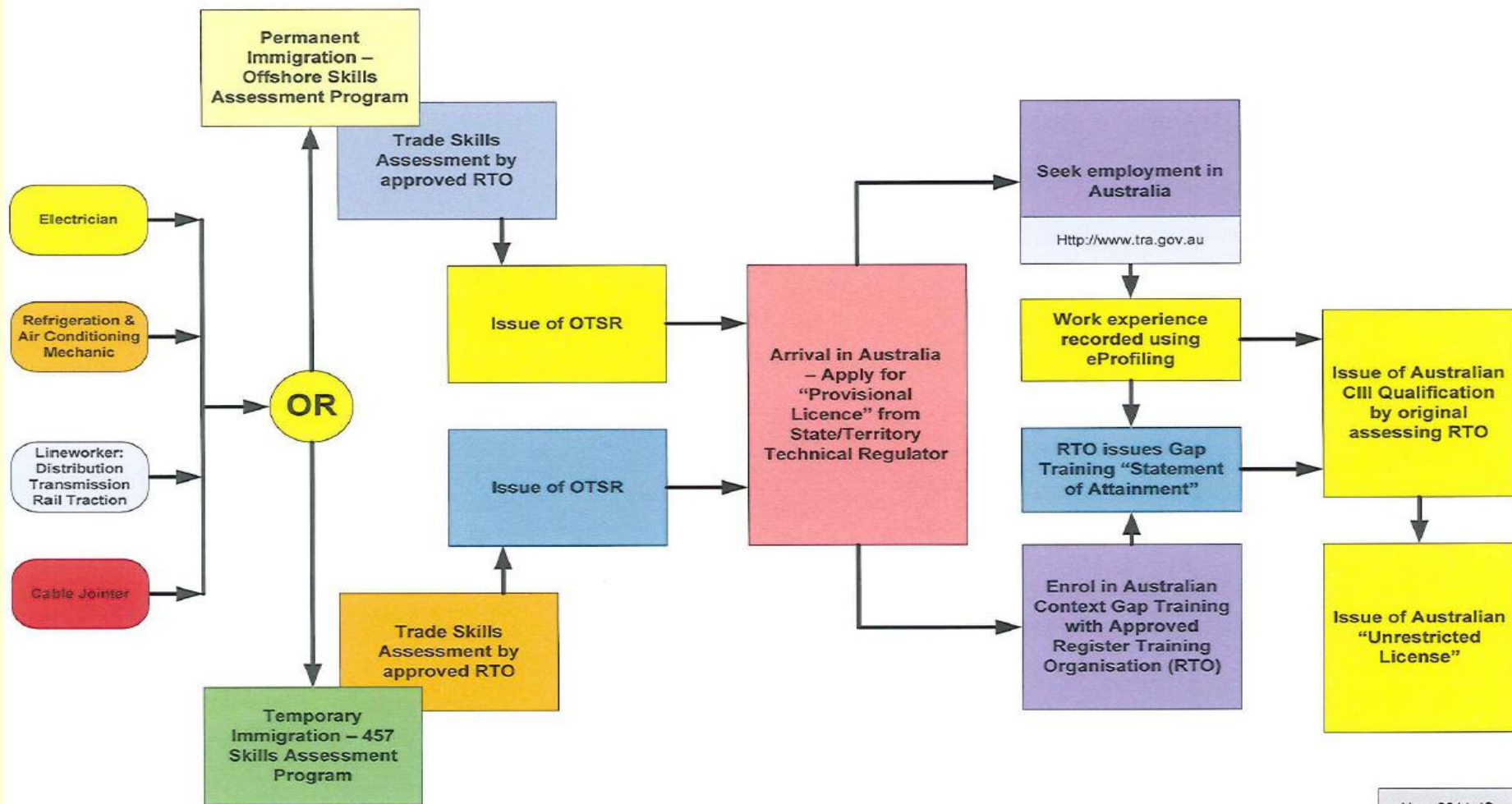


# 10. Electrician Trade Skills Recognition

- Flowchart – Overall process
- Flowchart – details of offshore and onshore processes
- Flowchart – Accredited Gap Training Course units
- Flowchart – Mapping of accredited gap training course to Training Package units



# Energy Sector Trade Skills Assessment Pathway

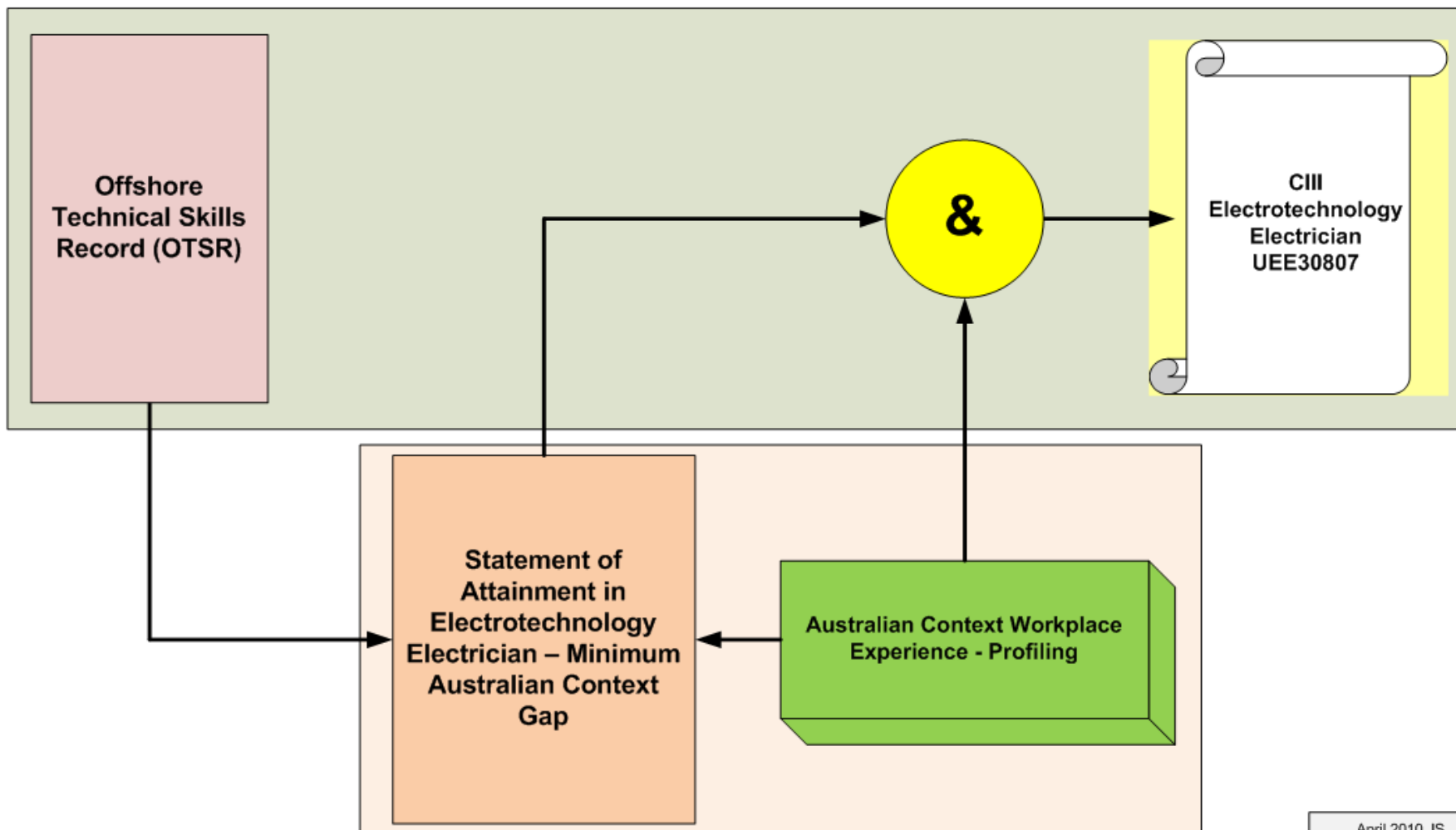


Nov. 2011 JS



# UEE30807 – CIII Electrotechnology Electrician

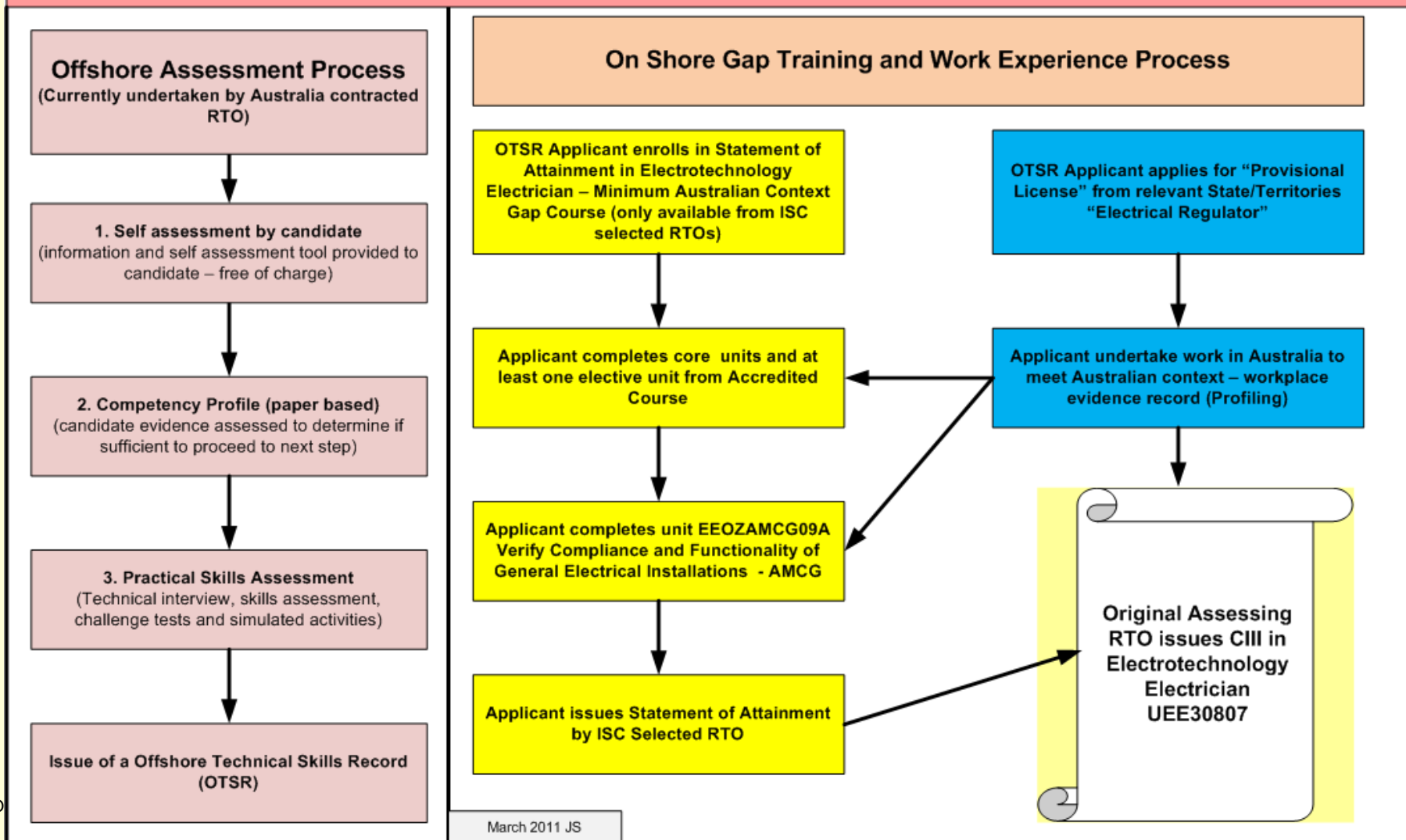
## Process for Offshore Assessment/Australian Context Training Gap





# UEE30807 – CIII Electrotechnology Electrician

## Process for Offshore Assessment/Australian Context Training Gap





# UEE30807 – CIII Electrotechnology Electrician

## Process for Offshore Assessment/Australian Context Training Gap

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### Statement of Attainment in Electrotechnology Electrician – Minimum Australian Context Gap

All Core CSUs  
+  
1 Elective CSU

EEOZAMCG09A Verify  
Compliance and  
Functionality of  
General Electrical  
Installations - AMCG

Statement of  
Attainment in  
Electrotechnology  
Electrician – Minimum  
Australian Context Gap

Core  
CSUs

EEOZAMCG01A  
Apply Australian OHS  
practices in the  
workplace - AMCG

EEOZAMCG02A  
Document occupational  
hazards and risks in  
electrical work - AMCG

EEOZAMCG05A Apply  
Australian Standards to Multiple  
Earth Neutral (MEN) wiring  
circuits and electrical  
installations - AMCG

EEOZAMCG06A Select  
protection devices and  
systems for single and  
three phase low voltage  
circuits and electrical  
installations - AMCG

EEOZAMCG07A Select  
and arrange equipment  
for single and three phase  
low voltage installations -  
AMCG

EEOZAMCG08A Conduct  
Electrical Installation,  
Testing and Verification -  
AMCG

Elective CSUs – 1 to be completed

EEOZAMCG10A Select,  
Install and Maintain  
Special Electrical  
Installations - AMCG

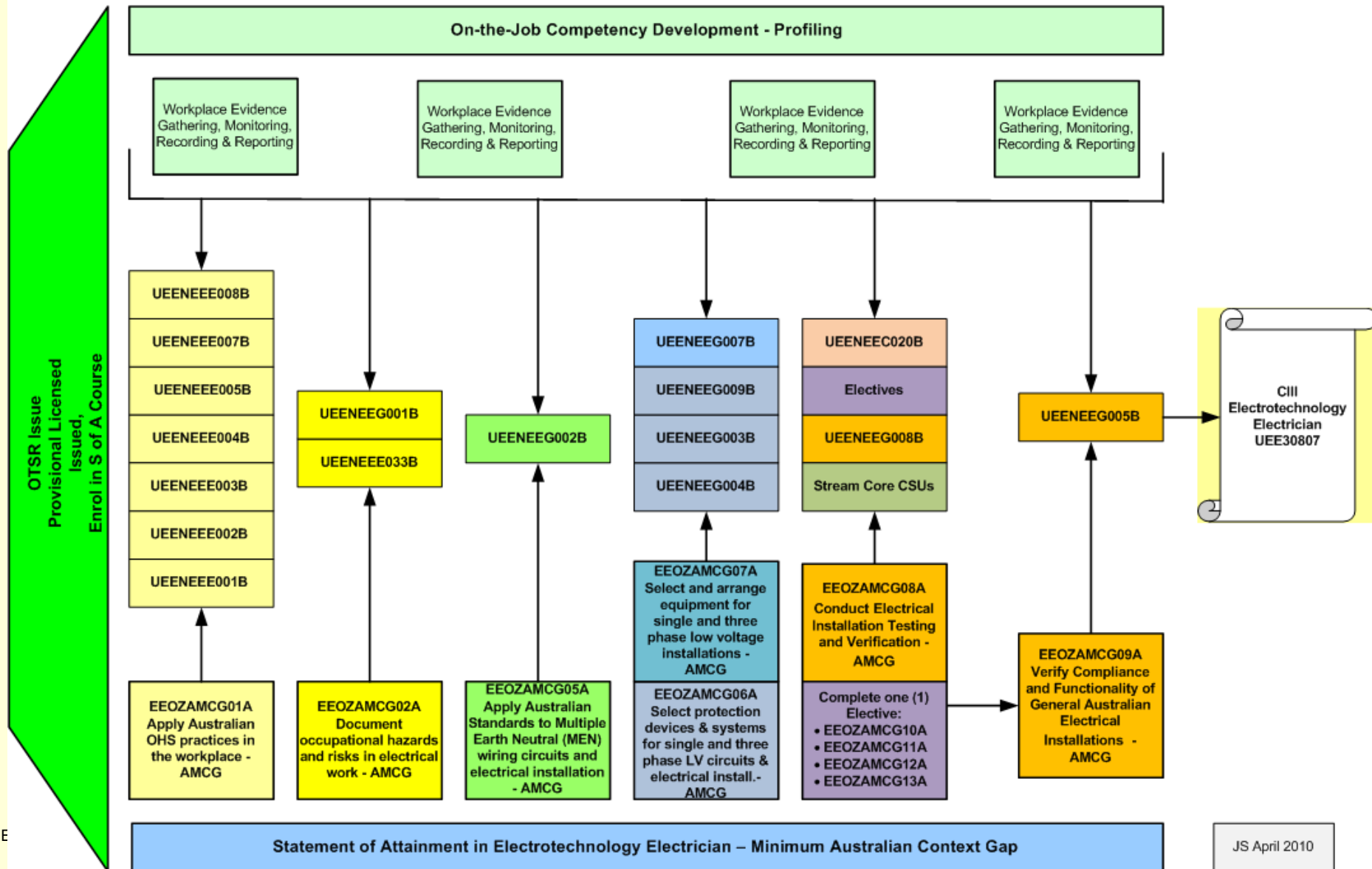
EEOZAMCG11A Develop,  
install and Maintain  
Industrial/Electrical  
Control Systems- AMCG

EEOZAMCG012A Find  
and rectify faults in  
energy supply network  
equipment - AMCG

EEOZAMCG13A Lay and  
connect cables for  
multiple access to  
telecommunication  
services - AMCG



## Certificate III Electrotechnology Electrician Minimum Australian Context Gap Training - Mapping





## EE-Oz Training Standards Australia

**Thank You**  
**QUESTIONS?**