

WESTERN POWER CORPORATION

CONTRACTOR CONNECT SCHEME

Preface

This Western Power Corporation document "Contractor Connect Scheme" is intended to provide the electrical contracting industry information relating to Western Power's connection process whereby electrical contractors are authorized to connect new installations.

REVISION LIST

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Contractor Connect Scheme

INTRODUCTION

Western Power's Contractor Connect Scheme and Authorized Electrical Worker Scheme (Contractor Connect) allows Authorized Electrical Workers who are employed by Accredited Electrical Contractors to energize installations and seal meters on behalf of Western Power upon completion and testing of their work. This scheme is limited to installations where the maximum demand does not exceed 100 amperes.

An exemption has been granted by the Director of Energy Safety under Regulation 242 of the Electricity Regulations 1947, allowing installations to be energized prior to Western Power receiving a Notice of Completion from the Electrical Contractor or Inhouse electrical licence holder.

This system will apply initially to installations that are supplied by a Western Power supply pillar and then may eventually be applied to overhead connections.

Entry to the scheme is voluntary. Electrical Contractors not wishing to participate will still be subject to the current sample inspection system and connection process.

Accredited Electrical Contractors and their Authorized Electrical Workers will move to a system of electrical inspection audit with low- level sampling of their installation work. It is not a requirement of the scheme that every Electrical Worker from a particular company be authorized. Those not authorized will be subject to the current inspection sampling system.

SCHEME ENTRY REQUIREMENTS

Entry to the Contractor Connect Scheme is voluntary. Electrical Contractors are required to nominate for the scheme by completing an approved Western Power application form (see *Appendix* "A"). The following information must be included with the application:

- Electrical Contractor details.
- List of the Electrical Contractor's nominees.
- List of Electrical Workers seeking to be authorized.
- The Electrical Contractor's Company Management Plan.

On receipt of the Electrical Contractor's application form, Western Power's Principal Electrical Inspector or an experienced delegated officer will assess the Electrical Contractors eligibility to join the scheme based on the following criteria:

- A nominee of the Electrical Contractor who is responsible for signing notices for their electrical workers has been nominated to attend the approved training course. The nominee will be eligible to attend the training course, regardless of their individual inspection sample rate. This acceptance is conditional on their company completing the minimum number of jobs required for entry to the scheme and the nominee meeting all other entry requirements.
- A company management plan is submitted which details the processes the Electrical Contractor's has in place to ensure all electrical work carried out is safe, complete and verified to conform to the relevant Australian Standards and WA Electrical Requirements (WAER).
- The company management plan must ensure that the Electrical Contractor assumes full responsibility of the work of their Electrical Workers and such responsibility is not delegated to the worker.
- The company management plan must address the following minimum requirements:
 - > Electrical Workers are instructed to work safely.
 - Each Electrical Worker is required to have adequate test equipment, tools and materials to complete the job to required standards.
 - The Electrical Contractor must be provided with an assurance that the electrical installing work performed by their workers is safe, carried out correctly, has been checked and tested and has been verified.
 - An assessment of each Authorized Electrical Worker's performance is carried out at regular intervals to ensure that the Electrical Worker is capable of carrying out electrical work correctly and safely, and the correct checking and testing procedures as detailed in the management plan are being followed.
 - Training is provided to Electrical Workers on any new standards, testing methods or installation methods introduced.
 - The Electrical Worker is issued with, and must complete an installation test sheet that details all tests that must be carried out on an installation to ensure compliance with AS/NZS 3000 and any other relevant standard. A comprehensive installation check must also be completed in accordance with the electrical contractors check- list. This check must be verified on the electrical contractors installation test sheet.
- The Electrical Contractor seeking accreditation must have traded as an electrical contractor for the previous 2 years.
- The Electrical Contractor or employed Electrical Worker must not have committed an offence resulting in prosecution or Electrical Licensing Board disciplinary action within the preceding 2 years nor have any disciplinary action pending. However, if the Electrical Contractor and the employed Electrical Worker can demonstrate significant work performance improvement and have implemented management systems to ensure high work standards, this requirement may be waived.
- Selected Electrical Workers must be on a sample rate greater than one, thus demonstrating a previous work history.
- All Electrical Workers nominated for the scheme must have had at least 12 months post apprenticeship electrical installing experience as an "A" Grade Electrical Mechanic and be accredited under Western Power's "H" accreditation scheme.

- A minimum number of major installations (to be advised by Western Power at the time of application) must have been completed over a 12-month period.
- Assessment of the Electrical Contractor's eligibility to join the scheme will include examining the Electrical Contractor's and individual Electrical Workers past electrical installation performance by utilizing the Electrical Licensing and Inspection Computer System (ELIS).

An Electrical Contractor will not be eligible to enter the scheme if electrical installation work performed by their company in the previous 6- month period has incurred a serious defect, unless they can demonstrate the management system they have in place can ensure that such defects will not re-occur.

An Electrical worker will also not be eligible to enter the scheme if they have incurred a serious defect in the preceding 6 months unless they can demonstrate significant work performance improvement. This improvement will be assessed by the number of jobs inspected after the serious defect has occurred without further defects and by the application of the Electrical Contractors management system plan.

Western Power will consult with the Energy Safety Directorate, prior to authorization, to determine whether there are previous or pending prosecutions or disciplinary actions on Electrical Contractors and workers seeking entry to the scheme.

APPROVAL

Should the Electrical Contractor's application be approved, Western Power will write to the contractor and advise that they may now contact an approved training organization and attend the Accredited Electrical Contractor and Authorized Electrical Worker course.

The approved training organizations (Power Training Services and The College of Electrical Training) will also be contacted by Western Power and advised that an application has been successful.

On the Electrical Worker having successfully completed the approved training course, the training organization will then advise Western Power that the applicant has been successful.

Each successful Electrical Worker will be issued with a Western Power "Authority to Connect" card displaying the worker's and their employer's name. This card will certify that the Electrical Worker is authorized to energize installations on behalf of Western Power.

Western Power will retain assessment records of all Electrical Workers and Electrical Contractors as long as the operative is a participant of the scheme. If the operative leaves the scheme, records will be kept for a minimum of seven years.

TRAINING

The training of Authorized Electrical Workers will be conducted by an approved training organization. Western Power's Power Training Services and The College of Electrical Training have been selected to deliver the training course.

Electrical Workers, including company Nominees, will be required to pass a theoretical and practical assessment in the following learning outcomes:

- Introduction and requirements of the Contractor Connect scheme.
- Legislative requirements.
- Installation Testing and verification.
- Pillar connection requirements.
- Meter and Installation connection, testing and sealing.
- Main Earth Neutral (MEN) connection requirements.
- Administration requirements including auditing, refresher training and Notices.

ELECTRICAL CONTRACTOR AND WORKER OBLIGATIONS

To maintain their accreditation, the Electrical Contractor will be required to comply fully with their approved company management plan. Key requirements of the company management plan are listed below. The Electrical Contractor will be required to:

- Detail the system and plan they have implemented to ensure all electrical work is safe, complete, verified and complies with the relevant mandatory Australian Standards and WA Electrical Requirements.
- Provide regular training and standards updates to all Authorized Electrical Workers.
- Regularly audit and monitor workers practices and performance, thus ensuring the company management plan requirements are being complied with. Such audits covering the testing and checking components may be conducted on-site, within a simulated testing environment or at a recognized training institution.
- Keep and maintain records of all installations completed, internal audits and training for a minimum of 7 years.
- Keep records of all internal audits, including any defects incurred by their Electrical Workers after the work has been completed. All records must be made available to Western Power on request.
- As part of their requirement to maintain a current "Register of Electrical Workers", the register is to also indicate whether the Electrical Worker is authorized under this scheme.

• Advise Western Power should an Authorized Electrical Worker leave their employment. This notification must be sent to Western Power within 10 working days of the employee's resignation.

Electrical Workers will only remain authorized whilst they are nominated by, and are employed by an Accredited Electrical Contractor. Should an Authorized Electrical Worker change company they will be no longer authorized, therefore they will be unable to energize installations unless their new employer is also accredited and has written to Western Power seeking permission to transfer the workers authorization.

Should an Authorized Worker transfer to a non-accredited Electrical Contractor, they will then revert back to the original system of inspection and will not be authorized to energize installations.

If an Authorized Electrical Worker ceases to be employed by an Accredited Electrical Contractor for greater than a 2- year period, they must re-qualify for re-entry to the scheme.

PROCESS

Once an Electrical Contractor and their Authorized Electrical Workers have successfully completed the training course, the following processes will occur:

- All Authorized Electrical Workers will be issued with a Western Power "Authorized to Connect" card.
- Western Power will issue all Authorized Electrical Workers with approved meter seals.
- Western Power will arrange for Accredited Electrical Contractors to be issued with meter fuse cartridges where required.
- Service Connection Test Forms as detailed in *Appendix B* will be issued to each Accredited Electrical Contractor.
- On commencement of work, the Electrical Contractor will submit a Preliminary Notice as required under Regulation 51 of the Electricity (Licensing) Regulations 1991.
- On completion of work, the Electrical Worker will check and test the installation in accordance with the approved checking and testing processes/ methods as detailed in the Electrical Contractors approved Management Plan. The Electrical Worker will connect the consumers mains to Western Power supply, test for correct connections, insert the meter fuse, test the meter, seal the meter and meter fuse and then leave the installation connected to supply. As the meter is being tested, results must be recorded on the Service Connection Test Form.
- Within 3 working days of completing the installation, the Electrical Contractor must submit a duly completed Notice of Completion to Western Power together

with the service connection testing form. This can be done manually or electronically, if the Electrical Contractor is a participant of the ETIC scheme.

• If done electronically, the Electrical Contractor will be required to store the service connection form with the paper copy of the Notice of Completion for the period of seven years.

SAMPLE INSPECTION OF ELECTRICAL WORK

Western Power will perform randomly selected, on-site sampling of the electrical installation work performed by each Authorized Electrical Worker.

The ELIS computer system will be utilized to randomly select work performed by each Authorized Electrical Worker in accordance with the sample inspection system.

Each Authorized Electrical Worker will be assigned a predetermined sample rate, which will be entered into ELIS manually.

AUDITING OF ELECTRICAL CONTRACTORS AND WORKERS

Western Power's Inspection Services will audit each Accredited Electrical Contractor and Authorized Electrical Worker to ensure compliance with the companies approved management plan, Electrical Workers checking and testing competence and scheme requirements.

Every Accredited Electrical Contractor will be initially audited within the first 6 months of commencing on the scheme and thereafter at 12 monthly intervals. Audits will include the following checks:

- The Electrical Contractor is complying fully with their approved management plan.
- All defects detected by the Electrical Contractor when auditing their Authorized Electrical Workers are recorded.
- The nature of defects recorded by the Electrical Contractor of poor work performance by Electrical Workers as detected by the contractor's on-site audits and advise received from the installations builders and/ or customers.
- The storage of records is for a minimum period of 7 years in accordance with the scheme requirements.
- Completion Notices are correctly completed and signed, thus verifying that only Authorized Electrical Workers have been energizing installations.

Each Authorized Electrical Worker will be subjected to an on-site audit. Such audit will be conducted at 12 monthly intervals and cover the following requirements:

• Safe work performance and work practices.

- The Electrical Workers knowledge of required test results.
- The Electrical Worker is testing and checking installations in accordance with the company management plan and relevant standards.
- The Electrical Workers installation and testing of service equipment is satisfactory.

Should an Electrical Contractor or Electrical Worker be found to not be complying with the requirements of this scheme, their accreditation will be reviewed. The electrical contractor or worker will be removed from the scheme where instances of serious non- compliance or repetitive non-compliance's have occurred. In all instances, Western Power must be satisfied that appropriate measures have been implemented to ensure the non-compliance does not re-occur.

All complaints from the public relating to substandard work performed by operatives will be subject of investigation by a Western Power Inspector. Where it is confirmed that the electrical contractor or worker has committed a serious non- compliance or repetitive non-compliance's have occurred they will also be removed from the scheme. Any confirmed serious breach will be forwarded to the Energy Safety Directorate on the standard "Breach Complaint" form for further action.

Any Accredited Electrical Contractor and/ or Authorized Electrical Worker, as appropriate, removed from the scheme will not be eligible for re-entry to the scheme for a minimum period of 6 months and until they have demonstrated significant work performance improvement.

Where an Electrical Contractor loses accreditation, Electrical Workers employed by this contractor will be ineligible to continue on the scheme unless employed by another Accredited Electrical Contractor or the Electrical Contractor's accreditation is reinstated. Such Electrical Workers will revert back to the sample inspection system.

VALIDATION OF NOTICES AND SCHEME PARTICIPANTS

Western Power will ensure that only Authorized Electrical Workers who are employed by Accredited Electrical Contractors are energizing installations.

The correct validation of notices will be checked as part of Western Power's inspection auditing requirements.

APPEALS PROCESS

Where an electrical contractor or electrical worker is aggrieved by any decision that prohibits them joining, suspends or removes them from the Contractor Connect Scheme they may appeal in writing to Western Power to have the decision reviewed.

Such appeal must be in writing and clearly outline the reasons for the appeal. The appeal must be submitted to Western Power not more than 14 days after the aggrieved

person is advised of the decision. Western Power will respond to the appeal within 28 days of receiving the appeal details or if it is not possible to adjudicate during this time frame advise the aggrieved person accordingly within the 28- day period.

Where Western Power rejects the appeal and the electrical contractor or electrical worker is still aggrieved by the decision, a further appeal may be made in writing to Energy Safety who will adjudicate on the matter.

APPENDIX "A" - APPLICATION FORM

	thorisation to Connect Supply
Company Trading Name	
Electrical Contractor's Licence No	•
Address	
Contact Name	
Phone No.	
Vame	Any Electrical Nominees EW Licence No.
Electrical	Workers for Authorisation
Name	EW Licence No.
<u>helm gen an en 1986 en en entre en altre presentar a constante en entre en entre en entre en entre en entre en</u>	
a an	
I,	seek approval on behalf of
	to become a Western Power accredited Electrica
Contractor for the purpose of energising inst	tallations to a maximum loading of 100 amperes. I agree to abide
	plement the works management plan as submitted by my
company.	V
	ove, are full time employees of my company and are nominated s
they may be authorised to energise installati	ions on behalf of Western Power whilst in the employ of my
company.	
N	
Name	
A CARLES A CONTRACTOR AND A CARLES A	
Signature	

APPENDIX "B" - SERVICE CONNECTION TEST FORM



Service Connection Test

Prior to connecting the consumer mains to supply, the Electrical Worker must ensure that the consumer mains conductors are correctly identified and tested, thus ensuring they are not transposed and the meter box cannot be inadvertently energized.

TESTING PROCEDURE	RESULT	✓
Pre-testing Checks		
Visually check the conductor orientation at the meter		
Single Phase ANNA		
Three Phase AA / AA / AA / NN		
Turn the main switch/switches OFF		

Remove the neutral load tail from the meter prior to carrying out tests.

CAUTION: THE LINE NEUTRAL COULD BE LIVE			
TESTS	RESULT	✓	
Remove the meter fuse carrier and prove the meter terminals are de-energized	0v No Light		
Test from the line terminal of the meter fuse/s to the line neutral terminal of the meter	240v Half Light		
Test from the line terminal of the meter fuse to the metal meter enclosure	240v Half Light		
Repeat the test from the line terminal of the meter fuse to the metal meter enclosure	240v Half Light		
Test from the line neutral terminal of the meter to the disconnected neutral load tail	0v No Light		
Test from the line terminal of the meter fuse/s to the disconnected neutral load tail	240v Half Light		
If connection is three phase, test between the line terminals of the meter fuses R - W / R - B / W - B	415v Full Light		
Insert meter fuse/s – one at a time for three phase			
Test from line active terminal/s and line neutral terminal	240v Half Light		
If three phase, test between phases on line active terminals	415v Full Light		
Test from line neutral to disconnected neutral load tail	0v No Light		
Remove meter fuse/s and re-connect the neutral load tail			
Insert meter fuse and load test from load active terminal to the load neutral terminal. If three phase, repeat this test for all three phases.	Disc rotated correctly forward		
Seal the meter and fuses			

Electrical Worker	EW Licence No.	Signature
Address		
Date	Meter No.	Seal No.