

## **A guide to Queensland Project Services additional requirements** **for the testing of twisted pair and fibre installation.**

### **Background**

This document has been prepared by VTI Services and approved by Queensland Project Services to provide guidelines to the additional requirements for the testing of Queensland Project Services sites.

### **Document Limitation**

This document is provided for guidance only. All care has been taken in the creation of the document; however no claim that any or all issues have been identified and no responsibility will be accepted for its use. This document reflects VTI Services understanding of Queensland Project Services requirements at the time of publication; however should there be conflict between this document and the Queensland Project Services requirements, Queensland Project Services requirements takes precedence.

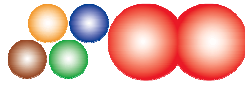
### **General Requirements**

#### **Independent test result analysis**

Queensland Project Services require on nominated projects that the fibre and twisted pair test results be submitted to an approved NATA accredited inspection body for evaluation. The associated "Statement of Compliance" and report form part of the acceptance requirements of the projects.

Project Services approved NATA Inspection body

**VTI Services**  
16 Banbury Crescent.  
Chipping Norton.NSW.2170  
Telephone 61-2-98242412  
Email [gps@vti.net.au](mailto:gps@vti.net.au)  
Contact Murray Teale



## Testing Officer Training

Queensland Project Services requires that all personnel carrying out testing be suitably trained by a tester manufacturer or complete a Queensland Project services approved course

Testing officers must successfully complete either an approved equipment manufacturer's course for the equipment utilised or an approved generic course.

### Manufacturers approved courses

1. Fluke Twisted Pair, LS&PM and OTDR Testers- [www.tex.net.au](http://www.tex.net.au)
2. Agilent Twisted Pair and LS&PM Testers [sales@ttas.net.au](mailto:sales@ttas.net.au)

*Please note – Any manufacturers course for OTDR and Light Source and Power Meters are deemed to comply*

### Approved Generic Courses

#### Twisted Pair

1. ADC Krone- JB Hunter technology-[www.jbhunter.com.au](http://www.jbhunter.com.au)
2. VTI Services-0298242412- [training@vti.net.au](mailto:training@vti.net.au)

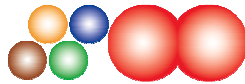
#### Fibre

1. ADC Krone- JB Hunter technology-[www.jbhunter.com.au](http://www.jbhunter.com.au)
2. VTI Services-0298242412- [training@vti.net.au](mailto:training@vti.net.au)

## Twisted Pair Requirements

### Test Requirements

- Permanent link testing shall be carried out to the compliance requirements of AS/NZS3080 at the appropriate class (Class D for Category 5 and Class E for Category 6)
- Correct adaptors must be used for all testing (Channel adaptors are unacceptable for permanent link testing)
- Marginal/Conditional Passes (Pass\*) are not acceptable
- Plot Data must be present
- Test results must be provided electronically



### Approved Testers

- Twisted pair testers utilised for testing of Queensland Project Services installation must meet defined requirements.
- Testers meeting these requirements which have been approved by Queensland Project Services include
  - Fluke DSP4100- Fluke DSP4300-Fluke DTX1200-Fluke DTX1800
  - Wirescope 350 and Wirescope PRO

### Fibre Requirements

- Permanent link testing shall be carried out to the compliance requirements of AS/NZS3080 for all fibre cores.
- Testing shall be carried out in two directions and at two wavelengths
- ***After 1/1/08 all testing shall be carried out utilising the methodology specified in AS/NZS ISO/IEC14763-3 (the new fibre standard)***
- Test results will be provided electronically in the testers' native format along with VTI Services fibre reporting sheet ([www.vti.net.au](http://www.vti.net.au))
- All fibre cores over 100 metres shall **additionally** be tested with an OTDR utilising a launch and a tail cable