

Training Course Guide

>> Recognised competency courses
by the industry leader

CABLERS | INSTALLERS | INTEGRATORS | TECHNICIANS
CONSULTANTS | CABLING DESIGNERS

Training Course Guide

EXCELLENCE IS OUR STANDARD

ADC KRONE Australia provides the next level of performance-based training to follow basic workplace skills training. ADC KRONE's series of approved training courses has been developed to enhance your skills with new technology information and up to date technical content.

LEADING INDUSTRY TRAINERS

The course material has been formulated in conjunction with specialist educators recognised as experts within the telecommunications training industry.

GET THE COMPETITIVE EDGE

Targeted beyond teaching the simple connection of cables, these courses are designed to provide a professional and systematic understanding of different cable connecting devices. Not just theoretical, these courses teach hands-on terminating, installing, testing, and design.



Who should attend?

Anyone involved in the information transport industry knows how difficult it is to stay up to date with the latest standards, regulations, network requirements, data cabling products and installation requirements. Relevant ADC KRONE courses address these needs as well as providing information on ADC KRONE TrueNet system warranty requirements.

Voice, Data & Security Installers/Technicians

- Keep abreast of all the latest industry techniques, standards, and practices
- Avoid installation errors that lead to test failures and expensive rework
- In order to maintain their ADC KRONE accreditation, TrueNet® Integrator companies must have at least 50% of their installation staff retrained as ADC KRONE Master Installers and at least one ADC KRONE Master Designer within a three year period.

LAN Managers & IT Support Staff

- Learn how to make fast, effective changes to your network
- Avoid the cost of waiting and having to call in specialist technicians to make changes
- Multi-skill your staff for a more productive and efficient IT team
- Learn design practices for better layout of communications and data infrastructure

Electricians

- Increase your opportunity to win new business
- Up-sell services on a project and gain a competitive advantage over non-data trained electricians
- Increase the quality of your advice to customers
- Understand product features that lead to client savings
- Be aware of the latest industry standards and products

Communications Project Managers/Work Supervisors

- Learn how to install cabling systems correctly the first time (for supervisory purposes)
- Gain ability to evaluate alternative products and designs
- Improve project profitability by reducing installation time and error correction
- Learn how to meet ADC KRONE TrueNet system warranty requirements



Master Installer Course

Course Outline

National and International Standards for cabling environment

- Cabling Provider Rules
- Mandatory Safety Standards
- Performance to international best practice ISO/IEC 11801
- Pathways and Spaces, Cabling Administration
- Copper Testing to international requirements ISO/IEC 61935.1

Overview High Speed Data Systems

- 100 MHz, 250 MHz and 500 MHz over UTP
- Gigabit and 10 Gigabit Ethernet Frames
- UTP, F/UTP, S/FTP shielding, earthing

Structured Cabling Components

- Connector types and modules
- Mounting systems
- Termination methods
- Star topology cabling

Categories and Transmission Performance

- Category 5e, Category 6, Category 6_A components
- Class C, Class D, Class E, Class E_A Permanent Links and Channels Testing requirements and techniques

ADC KRONE Solutions

- RJ45 and HighBand® for Class C, D, E and E_A performance
- TrueNet® System Solutions
- TrueNet System Warranty requirements

Installation Techniques to Maintain Performance

- Hauling tensions, bending radius, cable support
- Termination colour codes and standard pinouts
- Effects of poor installation on transmission performance

Practical Exercises

- UTP Backbone terminations on modules and interfacing to horizontal cabling
- Horizontal permanent link installation using Category 6 patch panels and modules
- Essential cable handling practices, jumpering and patching
- Compliance testing to Class E - Permanent Link and Channel
- Written Knowledge Exam

Outcome

ADC KRONE Master Installer Certificate of Competency and National Competency. Competency certificates will provide 14 CEC points towards BICSI RCDD and INSTALL programs.

For an ADC KRONE Certificate of Competency, students may gain recognition for any recent cabling courses completed with other training organisations. (The original of the recent course certificate must be brought to the course).

Optical Fibre Course

Course Outline

Optical Fibre Cable

- Properties and applications in communications
- Cable types and manufacture
- Examples and construction of fibre cables

Light Propagation in Optical Fibre

- Refraction, velocity, spectrum and modes of propagation
- Pulse dispersion and graded index fibre
- Modal bandwidth and numerical aperture

Standards and Transmission Characteristics

- International requirements for optical fibre, ISO/IEC 11801
- Fresnel, Power loss and transmission loss
- Wavelength of Operation distance - bandwidth limitations

Optical Transmission Systems and Components

- Calculating power loss budgets
- Allowable link losses for horizontal/backbone/campus cabling
- Laser and LED advantages/disadvantages
- Connector standardisation, termination/break-out panels

Installation Practices

- Direct termination using LC, SC & ST connectors
- Splicing - fusion and mechanical
- Essential safety practices and cable handling

Testing

- 1 & 3-Test Cord method of LSPM referencing
- Compliance testing to international standards ISO/IEC 14763-3
- Power loss and Optical Time Domain Reflectometer testing
- Fault finding

Practical Exercises

- Direct termination of looSetube and tight buffered OF cable using LC & SC
- Termination using pigtail fusion splicing
- Power loss and OTDR compliance testing
- Written knowledge examination

Outcome

ADC KRONE Master Installer Certificate of Competency and National Competency.

Competency certificates provide 14 CEC points towards BICSI RCDD and INSTALL programs.

Master Designer Course

Course Outline

Design Applications

- Customer Premises design compliance to international standards
- Cat 5, Cat 6 and Cat 6_A interpretation and compliance
- Backbone and horizontal cabling
- Typical commercial building with client needs
- Methods and quantity estimation using ADC KRONE products

Optical Fibre Application Overview

- Advantages - disadvantages
- Types, standardisation, dimensions
- Role of optical fibre in network development
- SMF, MMF, advantages and disadvantages
- Connectors, standardisation
- ADC KRONE product support

Practical Design Exercise/Workshop

- Interpreting customer requirements
- Selecting optimum overall design
- Design calculations to suit requirements
- Component selection and cost/benefit optimisation

Project: Individual Design Assignment

The individual assignment is to be completed after the course and returned for assessment within six weeks of completing the course. The awarding of the ADC KRONE Master Designer Certificate is contingent on successful completion of the course and a pass mark for the assignment project.

Outcome

ADC KRONE Master Designer Certificate of Competency. Delegates should preferably attend a Master Installer course as a prerequisite, or have a substantial knowledge of cabling performance and mandatory safety standards because previous training in these topics is not repeated. The original of the Master Installer certificate must be brought to the course.

Online Courses

ADC KRONE Australia's new online training website is open for business at a time to suit you, 24 hours a day, 7 days a week! The online version of the Master Installer course offers time and cost savings. It is an easier way to obtain cabling knowledge and skills.

The flexible online learning environment provides the busy installer with the opportunity to gain the essential knowledge as Part 1 for endorsement without being away from the job. Part 2 of endorsement is personal attendance at a one day practical, testing and examination session at a nominated training centre in your state.

Recognised by leading industry authorities, ADC KRONE Training delivers knowledge on Class D, Class E and Class E_A performance while utilising Category 5e, Category 6 and Category 6_A copper-based components.

Maintain your competitive edge in the marketplace with certification from the market leader in telecommunications connectivity. ADC KRONE TrueNet® Integrator companies are able to provide our unique warranty of up to 20 years.

Register for ADC KRONE and take advantage of what the market leader can offer. Go to adckrone.com/au/training



Training Locations

Australia

New South Wales
Victoria
Queensland
Western Australia
South Australia
Northern Territory
Australian Capital Territory
Tasmania

New Zealand

Wellington
Auckland
Christchurch

Book a course today

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For more details or to book a course,
go to www.adckrone.com/au and click
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