

DESIGN – half day

This course comprises a selection of topics to assist the Electrical Contractor to move from a Specification to a Design for the Board Builder. It is also useful in assisting the Board Builder to understand the decisions made by the Electrical Contractor.

Topic	Sub-Topic	Description
Energy Metering	Energy Meter Selection	A discussion on the different meter types available. Information on selecting the most cost effective meter for each application. Information on when a Pattern Approved meter is required.
	Direct Connect vs CT Meters	An analysis on the differences between Direct Connect and CT meters, covering both application and costs
	CT Selection Considerations	An overview of appropriate CT selections for given applications and the pitfalls of getting it wrong.
Water and Gas Metering	Pulse Counters vs Flow Meters	A discussion on the differences between pulse counters and flow meters and the implications for hardware selection.
Metering Networks	Wiring Methodology	A look at the different types of metering networks and the appropriate wiring for each. An overview of the different hardware used to communicate over a metering network.
	Protocols	A review of the common protocols used within the metering industry, their application and the limitations they enforce on metering networks.

CONSTRUCT – half day

This course comprises a selection of topics to assist the Board Building in implementing a design from the Electrical Contractor and to develop processes for testing energy meters. It is also useful in assisting the Electrical Contractor to understand the processes used by the Board Builder.

Topic	Sub-Topic	Description
Meter Configuration	CET Meters	A hands on look at configuring a number of common CET meters.
	EDMI Meters	A hands on look at configuring the EDM I range of meters.
	Schneider Meters	A hands on look at configuring a number of common Schneider meters in both the ION and PM range.
Wiring for Safety	Wiring Best Practices	A discussion of the best practices for wiring energy meters. This includes the use of shorting blocks and guidelines for CT secondary wiring.
Identifying Faults	Metering Faults	Provision of a useful toolkit of knowledge to assist in quickly identifying and rectifying metering faults.
Factory Acceptance Tests	FAT Benefits	A discussion of the benefits of performing FATs resulting in improved quality of work, less on site rectifications and assisting the Electrical Contractor meet NABERS requirements.
	FAT Procedures and Documentation	Requirements of typical FAT documentation and a discussion of the standard procedures. Information on how to interpret the information provided within the SAT documentation.

COMMISSION – half day

This course comprises a selection of topics to assist the Electrical Contractor in meeting project completion requirements.

Topic	Sub-Topic	Description
NABERS	Identifying NABERS Meters	A discussion on identifying NABERS meters and understanding the NABERS requirements.
	NABERS Testing Procedures	A discussion on NABERS testing procedures, how to avoid failed tests and what to do if a failure is documented.
Integration to BMS	Methods of Integration	A look at the different methods of integrating dissimilar systems. How to identify compatibility issues between EMS, BMS and other systems.
	Hardware and Software Options	An analysis of the different options available for establishing a high level interface between the EMS and BMS.
Site Acceptance Tests	SAT Procedures and Documentation	Provision of typical SAT documentation and a discussion of the standard procedures. Information on how to interpret the information provided within the SAT documentation.

Training Schedule



Course Calendar

	September	October	November	December	January	February
Design	24 Sept			N/A	N/A	18 Feb
Construct		22 Oct		N/A	N/A	
Commission			19 Nov	N/A	N/A	
	March	April	May	June	July	August
Design			20 May			19 Aug
Construct	18 Mar			17 June		
Commission		22 Apr			22 July	

Course Fees

\$300 per half day course.