



EW R 2020 TRAINING AGENDA

Electricity Wiring Regulation (E1)

COURSE INTRODUCTION:

Requirements for Electrical Contractors License:

On 1 January 2009 the Regulation and Supervision Bureau (RSB) now known as Department of Energy (DOE) published Revision 1 of The Electricity Wiring Regulations 2007 for the Emirates of Abu Dhabi and Al Ain. The purpose of these Regulations is to establish standards and principles that promote the design, construction and operation of safe and efficient systems of wiring in buildings and other premises.

The Al Ain Distribution Company (AADC) and Abu Dhabi Distribution Company (ADDC) currently carries out assessment and licensing of electrical contracting companies covering electrical installation work in buildings / premises (Resolution No. 11 2002).

The Department of Energy (DOE) has introduced a new requirement for all licensed companies to register a qualified engineer as representative and signature authority for their company. Such engineers will be required to attend the “Electricity Wiring Regulations Course E1” (5 days) and pass an examination.

This requirement takes effect from 1 September 2009 and has been updated on April 2020, company licenses will not be renewed after this date without a registered engineer.

COURSE AGENDA:

	DAY 1	
07:45	Chapter 1	1/2 hr
8:00 – 8:30	- Citation and Commencement - Purpose and Document Structure - Scope and Enforcement	
8:30 – 9:30	Chapter 3	
	- General Principles and Safety Requirements - Technical Standards, Materials and Workmanship - Approval of Installations - Extensions, Alterations and Repairs - Licensed Contractors - Requirements for Safety - Labeling and Identification - Environmental Conditions	1 hr
9:30 – 9:45	15 Minute Break	1/4 hr
9:45 – 10:45	Chapter 1 & 3 Questions and Case Study	1 hr
10:45 – 11:45	Chapter 4	1 hr
	- Electricity Supply Intake and Supply Parameters - Customer Connection Point - Multiple Occupancy Premises - Metering Requirements	
12:00 – 12:30	Chapter 4 Questions and Case Study	
12:30 – 13:15	Lunch Break / Prayers	3/4 hr
13:15 – 14:15	Chapter 5 (Protection)	1 hr
	- Protection (General Principals) - Overload and Short Circuit Protection	
14:15 – 15:00	Chapter 5a Questions and Case Study	3/4 hr

DAY 2		
07:45	• Registration	
8:00 – 9:00	Chapter 5 (Protection)	1 hr
	• Electrical Shock Protection	
	• Earth Leakage Protected Systems	
9:00 – 10:00	Worked Examples / Exercises	1 hr
10:00 – 10:15	15 Minute Break	¼ hr
10:15 – 11:30	Chapter 5 (Protection)	1 ¼ hrs
	• Earthed Equipotential Bonding	
	• Isolation and Switching and Insulation	
11:30 – 12:30	Chapter 5b Questions and Case Study	1 hr
12:30 – 13:15	Lunch Break / Prayers	¾ hr
13:15 – 14:15	Chapter 6 (Earthing)	1 hr
	• Principals and System of Earthing	
	• Earth Electrodes, Earth Terminals, Earth Conductors	
	• Earth Fault Loop Impedance	
14:15 – 15:00	Chapter 6 Questions and Case Study	¾ hr

DAY 3		
7:45	• Registration	
8:00 – 9:00	Chapter 7 (Selection of Components and Installation and Requirements)	1 hr
	• Plugs and Sockets	
	• Switches and Isolators	
	• Lighting	
	• Conduit, Trunking and Cable Trays	
9:00 – 9:30	Worked Examples / Exercises	½ hr
9:30 – 10:15	Chapter 7	¾ hrs
	• Cables	
	• Final Circuit, Busways, Distribution Boards, LV Switchboards	
10:30 – 11:30	Chapter 7	1 hr
	Questions and Case Study	
11:30 – 12:30	Chapter 9 & 10	1 hr
	• Special Locations	
	• Capacitors and Motors	
12:30 – 13:15	Lunch Break / Prayers	¾ hrs
13:15 – 15:00	Worked Examples / Exercises	1 ¾ hrs

DAY 4		
7:45	• Registration	
8:00 – 10:00	Chapter 8 Testing and Inspection Procedures	2 hrs
	• Introduction to Inspection Procedures and Forms	
10:00 – 10:15	15 Minute Break	¼ hr
10:15 – 12:00	Chapter 11, 12 and 13	1 ¾ hrs
12:00 – 12:30	Day 4 Practical Calculation Exercise	1 ½ hrs
12:30 – 13:15	Lunch Break / Prayers	¾ hrs
13:15 – 15:00	General Review of Chapters, Appendices & Guidance Notes	1 ¾ hrs

	DAY 5	
7:45	Registration	
8:00 – 9:15	Practical Exercises (Test Boards and Case Study) – Group 1 (2 participants)	1 ¼ hrs
9:15 – 10:30	Practical Exercises (Test Boards and Case Study) – Group 2 (2 participants)	1 ¼ hrs
10:30 – 11:45	Practical Exercises (Test Boards and Case Study) – Group 3 (2 participants)	1 ¼ hrs
11:45 – 13:00	Practical Exercises (Test Boards and Case Study) – Group 4 (2 participants)	1 ¼ hrs
13:00 – 13:45	Lunch Break / Prayers	¾ hrs
13:45 – 15:00	Practical Exercises (Test Boards and Case Study) – Group 5 (2 participants)	1 ¼ hrs

	DAY 6	
8:30 – 11:30	• 3 hrs open book final examination (5 participants)	3 hrs
12:00 – 15:00	• 3 hrs open book final examination (5 participants)	3 hrs

COURSE FEES:

AED 4,000 + 5% VAT per attendee

ICTD CANCELLATION POLICY:

1. There is no cancellation charge if made before 15 days the course starting date.
2. There is 50% due fees if cancellation is made during 10 days before the course starting date.
3. Cancellation before 1 week, The Fees are non-refundable and. No replacement is accepted.
Attendees who cancelled his/her registration will pay again for the next session.

RESULT & CERTIFICATION PROCESS

After the completion of the exam, result will be release after **10 working days**.

For those who PASSED the exam.

- Certificate you will process thru ADQCC Jawdah System.
- Participant should pay the Assessment Fee of **50 AED** and Certification Fee of **500 AED** thru ADQCC Jawdah System

For those who FAILED the exam.

- You will be given a chance to have 1 Re-take exam in ICTD Office – Abu Dhabi.