

## UTILITY METER ELECTRICIAN

8/18

### Special Note:

WWW.EDUCATIONDIRECTSALES.COM

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### Base Program

Course Title	Course Number	Course Duration	Study Unit
<b>YR1</b>			
Learning Strategies	050028	5 hours	Print
Working Safely with Electricity	186108	10 hours	Print
Basic Industrial Math	Block X31	30 hours	Print
Addition and Subtraction	186303	(5 hours)	Print
Multiplication and Division	186304	(5 hours)	Print
Fractions, Percents, Proportions, and Angles	186305	(5 hours)	Print
Metric System	186306	(5 hours)	Print
Formulas	186307	(5 hours)	Print
Introduction to Algebra	186308	(5 hours)	Print
Energy, Force, and Power	186128	(5 hours)	Print
Problem Solving and Troubleshooting	186073	10 hours	Print
Algebra, Part 1	2469A	10 hours	Print
Practical Geometry and Trigonometry	5567	10 hours	Print
Electrical Blueprint Reading	006036	10 hours	Print
Electrical Schematic Diagrams	6634A-B	20 hours	Print
Electrical Measuring Instruments,	4146A-C	30 hours	Print
DC Principles	Block A31	30 hours	Print
Nature of Electricity	086112	(5 hours)	Print
Circuit Analysis and Ohm's Law	086113	(5 hours)	Print
Capacitors and Inductors	086114	(5 hours)	Print
Magnetism and Electromagnetism	086115	(5 hours)	Print
Conductors, Insulators, and Batteries	086116	(5 hours)	Print
DC Motors and Generator Theory	086117	(5 hours)	Print
AC Principles	Block A32	40 hours	Print
Alternating Current	086118	(5 hours)	Print
Alternating Current Circuits	086119	(5 hours)	Print
Inductors in AC Circuits	086120	(5 hours)	Print
Capacitors in AC Circuits	086121	(5 hours)	Print
Transformers	086122	(5 hours)	Print
Alternators	086123	(5 hours)	Print
Electrical Energy Distribution	086124	(5 hours)	Print
Rectification and Basic Electronic Devices	086125	(5 hours)	Print

END YR 1 210 HRS

32 exams

## **UTILITY METER ELECTRICIAN PG2**

### **YEAR 2**

<b>Electricity and Magnetism, Part 1</b>	<b>4010A</b>	<b>10 hours</b>	<b>Print</b>
<b>Electricity and Magnetism, Part 2</b>	<b>4010B</b>	<b>10 hours</b>	<b>Print</b>
<b>Principles of AC Circuits</b>	<b>4018A-D</b>	<b>40 hours</b>	<b>Print</b>
<b>Electric Power Measurements</b>	<b>4019A-B</b>	<b>20 hours</b>	<b>Print</b>
<b>Analog Circuit Measurement</b>	<b>Block A33</b>	<b>15 hours</b>	<b>Print</b>
<b>Basic Test Equipment</b>	<b>086126</b>	<b>5 hours</b>	<b>Print</b>
<b>Troubleshooting with Volt-Ohm-Milliamp Meter (VOMs)</b>	<b>086127</b>	<b>(5 hours)</b>	<b>Print</b>
<b>Using Basic Oscilloscopes</b>	<b>086128</b>	<b>(5 hours)</b>	<b>Print</b>
<b>Component Testers</b>	<b>086062</b>	<b>6 hours</b>	<b>Print</b>
<b>Digital Test Equipment</b>	<b>086063</b>	<b>6 hours</b>	<b>Print</b>
<b>Switchgear</b>	<b>086092</b>	<b>10 hours</b>	<b>Print</b>
<b>Instrument Transformers</b>	<b>6793</b>	<b>10 hours</b>	<b>Print</b>
<b>Transformers</b>	<b>4040</b>	<b>10 hours</b>	<b>Print</b>
<b>Transformer Operation</b>	<b>4041</b>	<b>10 hours</b>	<b>Print</b>
<b>Distribution and Power Transformers</b>	<b>4042</b>	<b>10 hours</b>	<b>Print</b>
<b>Local Distribution of Electrical Power</b>	<b>006038</b>	<b>10 hours</b>	<b>Print</b>

**END YR 2    167 HOURS    19 exams**

### **YEAR 3**

<b>Conductors</b>	<b>006014</b>	<b>10 hours</b>	<b>Print</b>
<b>Electrical Wiring Practices</b>	<b>086E02</b>	<b>20 hours</b>	<b>Print</b>
<b>Electrical Grounding</b>	<b>086E01</b>	<b>25 hours</b>	<b>Print</b>
<b>Reactance and Impedance</b>	<b>086037</b>	<b>5 hours</b>	<b>Print</b>
<b>Resonant Circuits</b>	<b>086038</b>	<b>5 hours</b>	<b>Print</b>
<b>Applications and Troubleshooting of Resonant Circuits</b>	<b>086039</b>	<b>5 hours</b>	<b>Print</b>
<b>Analog Electronic Components</b>	<b>Block B23</b>	<b>42 hours</b>	<b>Print</b>
<b>Basic Semiconductor Components: Diodes</b>	<b>086019</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Basic Semiconductor Components: Transistors</b>	<b>086020</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Switching Devices</b>	<b>086021</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Electronic Sensors</b>	<b>086022</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Special Rectifiers: Electron Tubes</b>	<b>086023</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Optoelectronic and Fiber Optic Components</b>	<b>086024</b>	<b>(6 hours)</b>	<b>Print</b>
<b>Electronics Hardware</b>	<b>086040</b>	<b>(6 hours)</b>	<b>Print</b>

## **UTILITY METER ELECTRICIAN PG3**

### **YR 3 CON'T**

<b>Basic Electronic Components and Schematic Symbols 2020</b>		<b>10 hours</b>	<b>Print</b>
<b>Solid State Circuits</b>	<b>2007A-C</b>	<b>30 hours</b>	<b>Print</b>
<b>Introduction to Microprocessors</b>	<b>Block B11</b>	<b>28 hours</b>	<b>Print</b>
<b>Introduction to Computers</b>	<b>B1101</b>	<b>(7 hours)</b>	<b>Print</b>
<b>Introduction to Microprocessor Applications</b>	<b>B1102</b>	<b>(7 hours)</b>	<b>Print</b>
<b>Microprocessor Basics, Part 1: Underlying Principles and Concepts</b>	<b>B1103</b>	<b>(7 hours)</b>	<b>Print</b>
<b>Microprocessor Basics, Part 2: Overview of What's in a Microprocessor</b>	<b>B1104</b>	<b>(7 hours)</b>	<b>Print</b>
<b>Progress Examination</b>	<b>B1121</b>	<b>(0 hour)</b>	<b>Print</b>
<b>Progress Examination Booklet</b>	<b>B1120</b>	<b>(0 hour)</b>	<b>Print</b>

**END YR 3      180 HRS   25 exams (28 books progress exam B11)**

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