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Num	TITLE	TABLE OF CONTENT	OBJECTIVES	DURATION
UNIT E-01	FUNDAMENTALS OF D.C.	1.0 Electron Theory, Voltaic Cells And Electromagnetism. 2.0 D.C. Circuits & Principles Of D.C. Measurement. 3.0 Resistances In Series And Parallel. 4.0 Inductance. 5.0 Capacitance. 6.0 D.C. Power. 7.0 Principles Of D.C. Measurement	<ul style="list-style-type: none"> ◆ Describe The Atomic Structure And Its Influence On Electrical Properties Of Materials ◆ Explain The Properties Of Primary And Secondary Cells ◆ State The Basic Laws Of Magnetism And Electromagnetism ◆ Explain The Phenomenon Of Electromagnetic Induction ◆ State The Ohm's Law ◆ Solve The Circuits Consisting Of Resistances In Series And Parallel ◆ Define The Inductance And Describe Its Effects In D.C. Circuits ◆ Define The Capacitance And Describe Its Effects In D.C. Circuits ◆ Solve D.C. Circuits Consisting Of Resistances, Inductances And Capacitances ◆ Define The Electric Power And State Its Formula For D.C. Circuits ◆ Describe The Operating Principles Of Basic D.C. Measuring Instruments 	7 DAYS



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<p>UNIT E-02-01</p>	<p>A.C. CIRCUITS & 3-PHASE SYSTEMS</p>	<p>1.0 Principles Of A.C. Generation. 2.0 Basic A.C. Generator. 3.0 Alternating Quantities. 4.0 Phase A.C. Generators. 5.0 Phase Connections. 6.0 Mathematical Operations With A.C. Quantities. 7.0 Vector Diagrams. 8.0 Principles Of Alternating And Rotating Magnetic Fields. 9.0 Current And Voltage In A.C. Circuits. 10.0 Inductive And Capacitive Reactance. 11.0 Impedance And The Ohm's Law For A.C. 12.0 Power In A.C. Circuits. 13.0 Power Factor. 14.0 Phase Power. 15.0 Principles Of A.C. Measurement.</p>	<ul style="list-style-type: none"> ◆ Explain The Faraday's Law Of Electromagnetic Induction And Its Application ◆ Explain The Operation Of A Simple A.C. Generator ◆ Describe The Principles Of 3-Phase A.C. Generation ◆ Describe And Draw The Most Common (Star And Delta) 3-Phase Connections ◆ Explain The Principles Of Alternating And Rotating Magnetic Fields ◆ State The Phase Relationship Between Current And Voltage In An A.C. Circuit ◆ Define The Inductive And Capacitive Reactance ◆ Define The Impedance And State The Ohm's Law For An A.C. Circuit ◆ State The Expressions For Active, Reactive And Apparent Power In Single-Phase And 3-Phase A.C. Circuits ◆ Explain The Principles Of A.C. Measurement And The Operation Of Moving-Iron, Moving-Coil, Dynamometer And Induction Instruments 	<p>7DAYS</p>
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<p>UNIT E-02-02</p>	<p>SEMICONDUCTOR DEVICES & RECTIFIERS</p>	<p>1.0 SEMICONDUCTOR DEVICES. 2.0 PRINCIPLES OF RECTIFICATION. 3.0 SINGLE PHASE RECTIFIERS. 4.0 THREE-PHASE RECTIFIERS. 5.0 RIPPLE AND HARMONICS FROM A RECTIFIER.</p>	<ul style="list-style-type: none"> ◆ Describe The Operating Principles Of Semiconductor Devices Such As : Diode, Transistor, Thyristor, Triac And Fet ◆ Explain The Principles Of Rectification Using Diodes And Thyristors ◆ Describe The Most Common Single And Three-Phase Rectifier Circuits ◆ Explain The Differences Between The Uncontrolled, Half-Controlled And Fully Controlled Rectifiers ◆ Explain The Influence Of Ripple And Harmonics On The Rectifier Output 	<p>7 DAYS</p>
<p>UNIT E-03</p>	<p>A.C. GENERATORS</p>	<p>1.0 A.C. Generators. 2.0 Insulation And Cooling. 3.0 Generator Excitation. 4.0 Automatic Voltage Regulators (Avr). 5.0 Generator Speed Control. 6.0 Generator Protection And Testing. 7.0 Diesel Generator Sets.</p>	<ul style="list-style-type: none"> ◆ Describe The Construction And Basic Operating Principles Of A.C. Generators ◆ Describe The Various Generator Excitation Methods ◆ Explain The Purpose And Operation Of Automatic Voltage Regulators (Avrs) ◆ Explain The Methods Of Generator Speed Control ◆ Describe The Basic Testing And Protection Of A.C. Generators 	<p>7 DAYS</p>



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UNIT E-04	POWER TRANSFORMERS	1.0 TRANSFORMER THEORY AND PRINCIPLE OF OPERATION. 2.0 AUTO-TRANSFORMERS. 3.0 ISOLATING TRANSFORMERS. 4.0 PHASE TRANSFORMERS. 5.0 INSTRUMENT TRANSFORMERS. 6.0 CONSTRUCTION OF POWER TRANSFORMERS. 7.0 TAP CHANGING. 8.0 INSULATION. 9.0 COOLING. 10.0 TRANSFORMER TESTING. 11.0 TRANSFORMER PROTECTION.	<ul style="list-style-type: none"> ◆ Explain The Principles Of Electrical Power Transformation ◆ Describe The Operation Of Auto Transformers, Isolating Transformers And Instrument Transformers ◆ Describe The Principal Types Of Power Transformers, Their Construction And Accessories ◆ Describe The Insulation And Cooling Of Power Transformers ◆ Explain The Process Of On-Load And Off-Load Tap Changing ◆ Describe The Typical Transformer Tests 	DAYS
UNIT E-05	CIRCUIT BREAKERS & SWITCHGEAR	1.0 Circuit Breakers. 2.0 High Voltage Switchgear. 3.0 Low Voltage Switchgear. 4.0 Switchgear Testing.	<ul style="list-style-type: none"> ◆ Explain The Principles Of D.C. And A.C. Interruption ◆ Describe The Construction And Operation Of Various Types Of Circuit Breakers ◆ Describe The Operation Of High And Low Voltage Switchgear ◆ Describe The Construction Of Low Voltage Switchboards ◆ Describe The Main Tests And User Checks Of Switchgear 	7 DAYS



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<p>UNIT E-06</p>	<p>3-PHASE MOTORS</p>	<p>1.0 Synchronous Motor. 2.0 Induction Motors. 3.0 Enclosures. 4.0 Cooling. 5.0 Power For Induction Motors. 6.0 Power Factor Correction. 7.0 Direct-On-Line (Dol) Starting. 8.0 Reduced Voltage Starting. 9.0 Motor Operation At Reduced Voltage. 10.0 Motor Testing. 11.0 Motor Failures.</p>	<ul style="list-style-type: none"> ◆ Describe The Construction, Characteristics And Operation Of A Synchronous Motor ◆ Describe The Two Types Of Induction Motors (Squirrel-Cage And Wound Rotor) ◆ Describe Motor Enclosures And Cooling ◆ Explain The Methods Of Starting The Induction Motor ◆ Explain The Effects Of Reduced Voltage On Operation Of Induction Motors ◆ Explain The Practice Of Power Factor Correction ◆ Describe The Basic Motor Tests ◆ Describe The Most Common Motor Failures 	<p>7 DAYS</p>
<p>UNIT E-07</p>	<p>MOTORS & MOTOR CONTROL CIRCUITS</p>	<p>1.0 3-Phase Motors. 2.0 Motor Starting And Protection. 3.0 Introduction To Motor Control.</p>	<ul style="list-style-type: none"> ◆ Describe The Construction And Principle Of Operation Of 3-Phase Motors ◆ List The Most Common Faults Of 3-Phase Motors And Their Causes ◆ Describe The Different Starting Methods Used For Induction Motors ◆ List The Basic Motor Circuit Protection Methods 	<p>7 DAYS</p>



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			<ul style="list-style-type: none"> ◆ Read The Motor Control Circuit Drawings And Ladder Diagrams ◆ Describe The Use Of Relays In Motor Control Circuits ◆ Describe The Simple 3-Wire And 2-Wire Motor Control Circuits 	
<u>UNIT E-08-01</u>	SINGLE-PHASE MOTORS	<p>1.0 Single-Phase Motors. 2.0 Types Of 1-Phase Motors. 3.0 Construction Of A Single-Phase Induction Motor. 4.0 Split-Phase Motor. 5.0 Capacitor 6.0 Repulsion Motors. 7.0 Shaded-Pole Motor. 8.0 Synchronous Motor. 9.0 Single Phase Motor Characteristics. 10.0 Motor Enclosures. 11.0 Machine Rating.</p>	<ul style="list-style-type: none"> ◆ Explain The Principle Of Operation Of Single-Phase Motors ◆ Describe The Construction Of Different Types Of Single-Phase Motors ◆ Explain The Methods Of Starting Of Single-Phase Motors ◆ Interpret The Motor Nameplate Information ◆ Identify Different Types Of Motor Enclosures ◆ Explain The Concept Of Machine Rating ◆ Diagnose The Basic Faults Of Single Phase Motors 	7 DAYS



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<p>UNIT E-08-02</p>	<p>D. C. MACHINES</p>	<p>1.0 Construction Of Direct Current Machines. 2.0 Parts Of A D.C. Machine. 3.0 D.C. Motors. 4.0 D.C. Generators.</p>	<ul style="list-style-type: none"> ◆ Describe The Constructive Parts Of A D.C. Machine And Their Function ◆ Explain The Principle Of Operation And Describe The Different D.C. Motor Types ◆ Explain The Principle Of Operation And Describe The Different D.C. Generator Types ◆ List The Possible Causes Of D.C. Generators Failing To Generate ◆ Calculate The Terminal Voltage Of A D.C. Machine 	<p>7 DAYS</p>
<p>UNIT E-09</p>	<p>ELECTRICAL CABLES</p>	<p>1.0 Electrical Cable Types. 2.0 Identification Of Conductors. 3.0 Construction Of Power Cables. 4.0 Construction Of Control Cables. 5.0 Mineral Insulated Cables. 6.0 Selection Of Power Cables. 7.0 Method Of Specifying Cables. 8.0 Cable Installation. 9.0 Cable Tests.</p>	<ul style="list-style-type: none"> ◆ Describe the most common uses of electrical cables ◆ Identify the conductors in an electric cable ◆ Describe the construction of electric power cables ◆ Explain the criteria for selection of power cables ◆ Describe the principal cable installation methods ◆ Name the basic tests performed on cables 	<p>7 DAYS</p>



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<p>UNIT E-10</p>	<p>SYSTEM & FIXED EQUIPMENT EARTHING</p>	<p>1.0 Unearthed Systems. 2.0 Earthed Systems. 3.0 System Earthing Methods. 4.0 Solidly Earthed Neutral. 5.0 Low-Resistance Earthed Neutral. 6.0 High-Resistance Earthed Neutral. 7.0 Equipment Earthing Methods. 8.0 Earth Resistance Measurement. 9.0 Static Electricity Earthing. 10.0 Earthing Of Fixed Equipment.</p>	<p>Explain The Reasons For System And Fixed Equipment Earthing Explain The Difference Between Unearthed And Earthed Systems Describe The Basic System Earthing Methods, Their Advantages And Disadvantages Describe The Earthing Of Electrical And Other Fixed Equipment In A Process Plant</p>	<p>7 DAYS</p>
<p>UNIT E-11</p>	<p>MEASUREMENT & PROTECTION</p>	<p>1.0 A.C. Measurement. 2.0 Direct Measurement. 3.0 Protective Devices. 4.0 Relay Protection. 5.0 Relays. 6.0 Sprotection Of Electrical System Component. 7.0 Motor Protection.</p>	<ul style="list-style-type: none"> ◆ Explain The Principles Of Direct And Indirect Measurement ◆ Describe The Use Of Voltage And Current Transformers ◆ Describe The Construction, Operation And Applications Of Relays ◆ Explain The Use Of Circuit Breakers And Fuses As Protective Devices ◆ Describe The Coordination Of Relays And Other Protective Devices ◆ Explain The Principles Of Over-Current And Earth-Fault Relay Protection 	<p>7 DAYS</p>



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<u>UNIT E-12</u>	POWER GENERATION & DISTRIBUTION	<p>1.0 Electrical Power Generation.</p> <p>2.0 Power Plants .</p> <p>3.0 Emergency And Standby Power Generation.</p> <p>4.0 Electrical Power Transmission And Distribution.</p> <p>5.0 Transmission.</p> <p>6.0 Distribution.</p> <p>7.0 Substations.</p>	<ul style="list-style-type: none"> ◆ Explain The Concept Of Power Demand And Its Variation ◆ Describe The Most Common Power Plant Types And Their Operating Principles ◆ Describe The Various Emergency And Standby Power Systems ◆ Describe The Operation Of Gas Turbine And Its Use In The Industrial Power Generation ◆ Describe The Use Of Diesel Generator Sets For Standby And Emergency Power Generation ◆ Explain The Principles Of High-Voltage A.C. And D.C. Transmission ◆ Describe The Concept Of Electrical Distribution And The Most Common Distribution System Configurations ◆ Describe The Various Types Of Substations ◆ Recognize The Substation Equipment And Its Function 	7 DAYS
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<p><u>UNIT E-13</u></p>	<p>UPS, ASD & STATIC SWITCHES</p>	<p>1.0 Battery Supported A.C. And D.C. Systems (Ups Systems). 2.0 D.C. Supply Systems. 3.0 Adjustable (Variable) Speed Drives. 4.0 Background & Selecting Drive Applications. 5.0 Low Voltage Induction Motor Asds. 6.0 Medium Voltage Induction Motor Asds. 7.0 Control Methods. 8.0 When To Apply An Asd. 9.0 Static Switch.</p>	<ul style="list-style-type: none"> ◆ Describe The Basic Components And Operation Of Uninterrupted Power Supply (UPS) Systems ◆ Describe The Use Of Adjustable Speed Drives With Induction And Synchronous Motors ◆ Explain The Criteria For The Application Of An Adjustable Speed Drive (ASD) ◆ Describe The Principles Of Operation Of Single-Phase And Three-Phase Static Switch 	<p>7 DAYS</p>
<p><u>UNIT E-14</u></p>	<p>BATTERIES & CHARGING</p>	<p>1.0 Battery Fundamentals. 2.0 How A Battery Works. 3.0 Primary Cells. 4.0 Secondary Cells. 5.0 Connection Of Cells. 6.0 Internal Resistance Of A Cell. 7.0 Torage Battery Types. 8.0 Battery Maintenance.</p>	<ul style="list-style-type: none"> ◆ Explain The Difference Between The Primary And The Secondary Cell ◆ Explain How Cells Are Connected In Series, Parallel And Series-Parallel. ◆ Define And Calculate The Internal Resistance Of A Cell And Of A Battery Of Cells ◆ Explain, In Detail, The Workings Of A Lead/Acid Cell. ◆ Explain, In Detail, The Workings Of An Alkaline Cell. ◆ Discuss The Advantages And Disadvantages Of Lead/Acid 	<p>7 DAYS</p>



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			<p>And Alkaline Cells.</p> <ul style="list-style-type: none"> ◆ Calculate The Charge Or Discharge Rates, Capacity And Efficiency Of A Cell. ◆ List The Applications Of A Storage Cell. ◆ Explain Chemical Reactions In A Cell During Charge And Discharge. ◆ Test Lead/Acid Batteries Using A Hydrometer To Determine Specific Gravity. ◆ Perform A Voltage Test On A Lead/Acid Battery. ◆ Measure The State Of Charge Of An Alkaline Battery. ◆ Explain The Principles Of Battery Charging And The Operation Of Charging Circuits ◆ Use The Correct Methods For Charging Lead/Acid Batteries. ◆ Use The Correct Methods For Charging Alkaline Batteries. 	
<u>UNIT E-15</u>	LIGHTING	<p>1.0 Common Lighting Terms. 2.0 Illumination Law. 3.0 Measurement Of Illuminance (Illumination). 4.0 Light Sources 5.0 Incandescent Lamps.</p>	<ul style="list-style-type: none"> ◆ Use Common Lighting Terminology Such As Luminous Intensity, Luminous Flux, Luminous Efficacy Etc. And Know The Symbol For Each. 	7 DAYS



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		<p>6.0 Discharge Lamps. 7.0 The Basic Fluorescent Circuit. 8.0 Switchless-Start Circuits. 9.0 Stroboscopic Effect. 10.0 High Pressure Mercury Vapour Lamp. 11.0 Emergency Lighting</p>	<ul style="list-style-type: none"> ◆ Be Able To Calculate Illuminance According To The Inverse Square Law Of Illumination. ◆ List The Main Types Of Incandescent And Illuminescent Lighting. ◆ Describe The Construction And Operation Of General Service Lamps, Tungsten Halogen Lamps, Discharge Lamps And Fluorescent Lamps. ◆ Describe The Basic Fluorescent Circuit And The Four Main Parts Of The Fluorescent Fitting. ◆ Describe The Operation, Construction And Characteristics Of High Pressure Mercury Vapour Lamps, Low And High Pressure Sodium Lamps. ◆ Explain The Principles Of Emergency Lighting, Describe The Systems Available And Have A Knowledge Of The Locations Where Emergency Lighting Is Required By Law. 	
UNIT E-16	CATHODIC PROTECTION	<p>2.0 Nature Of Corrosion And Principles Of Cathodic Protection 2.1 Factors Affecting Corrosion .</p>	<ul style="list-style-type: none"> ◆ Describe The Phenomenon Of Corrosion And The Factors Affecting It 	7 DAYS



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		<p>2.2 Cathodic Protection Execution . 2.3 Potential Measurement 3.1 Protection By Sacrificial Anodes 3.2 Protection By Impressed Current 3.2.1 Coatings And Cathodic Protection 4.0 Insulating Flanges And Resistance Bonds 4.1 Electrical Interference Effects 4.1.1 The Process Of Absorption 4.1. Monitoring Of The Cathodic Protection System 4.2 Protection Of Buried Pipelines 5.0 Gas Dehydration By Glycol Contacting 5.1 Protection Of Underground Tanks</p>	<ul style="list-style-type: none"> ◆ Explain The Basic Principle Of Cathodic Protection ◆ Describe The Most Common Methods Of Cathodic Protection ◆ Describe The Procedure Of Potential Measurement ◆ Explain The Protection By Sacrificial Anodes And List The Materials Used ◆ Explain The Protection By Impressed Current ◆ Describe The Influence Of Coatings On Cathodic Protection ◆ Describe The Use Of Insulating Flanges And Resistance Bonds ◆ List The Most Common Electrical Interferences Affecting The Protection System ◆ Describe The Monitoring Of Different Protection Systems ◆ Explain The Methods Of Protection Of Buried Pipelines And Underground Tanks 	
UNIT E-17	EXPLOSION PROOF EQUIPMENT	<p>1.0 Basic Principles And Definitions Of Explosion Protection. 2.0 Statutory Regulations And</p>	<ul style="list-style-type: none"> ◆ Upon The Completion Of This Module The Trainee Will Be Able To: 	7 Days



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		<p>Standards.</p> <p>3.0 Zone Classification.</p> <p>4.0 Explosion Groups And Temperature Classes.</p> <p>5.0 Types Of Protection.</p> <p>6.0 Dust Explosion Protective Systems.</p> <p>7.0 Application Of Increased Safety (“E”) Type Of Protection.</p> <p>8.0 Application Of Flameproof Enclosure (“D”) Type Of Protection.</p> <p>9.0 Duties Of Installer, Manufacturer And Operator.</p> <p>10.0 Methods Of Installation.</p>	<ul style="list-style-type: none"> ◆ State The Conditions Needed For An Explosion To Occur ◆ Explain The Principles Of Primary And Secondary Explosion Protection ◆ Name The Main Directive That Regulates The Use Of Equipment In Hazardous Areas ◆ Describe The Marking Of Explosion-Proof Equipment ◆ Explain The Method Of Zone Classification And The Properties Of Each Zone ◆ Name The Explosion Groups And Temperature Classes; Describe Their Properties ◆ Name The Different Types Of Explosion Protection, For Both Gas And Dust-Produced Explosive Atmospheres, And Explain Their Operating Principles ◆ Describe The Application Of Most Common Protection Types (“D”, “E” And “I”) ◆ Explain The Two Methods Of Isolation Between Intrinsically-Safe And Non Intrinsically-Safe Circuits 	
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			<ul style="list-style-type: none"> ◆ Describe The Basic Wiring Installation Methods For Explosion-Proof Equipment ◆ Describe The Basic Inspection, Maintenance And Repair Principles And Procedures 	
<u>UNIT E-18</u>	ELECTRICAL SAFE WORK PRACTICES	1.0 Electrical Hazards. 2.0 Preventive Measures And Protective Systems. 3.0 Standards For The Operation Of Electrical Installations. 4.0 The European Standard . 5.0 Introduction To Electrical Safe Work Practices. 6.0 Managing Safety. 7.0 Personnel Qualifications. 8.0 Job Planning. 9.0 Proper Work Environment. 10.0 Electrical Safety And Work Permits Practice.	<ul style="list-style-type: none"> ◆ State The Most Frequent Electrical Hazards In The Industrial Environment ◆ Describe The Most Common Preventive Measures And Protective Systems ◆ Describe The Standards That Regulate The Operation Of Electrical Installations And Explain The Basic Work Procedures, As Defined In The Standards ◆ Apply The Basic Electrical Safe Work Practices ◆ Plan Work Tasks And Follow Written Job Plans And Procedures ◆ Describe The Basic Risk And Hazard Factors Involved In Electrical Work 	7 DAYS
<u>UNIT E-19-01</u>	FIELD COMMISSIONING	1.0 General 2.0 Testing And Commissioning	<ul style="list-style-type: none"> ◆ Describe The Testing And Commissioning Methods 	7 DAYS



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		<p>Methods.</p> <p>3.0 Testing And Commissioning Procedures.</p>	<p>Used For Various Types Of Electrical Equipment</p> <ul style="list-style-type: none"> ◆ Perform The Commissioning Of Electrical Equipment By Following Proper Procedures And Using Applicable Checklists 	
UNIT E-19-02	ELECTRICAL MAINTENANCE	<p>1.0 Electrical Equipment In Hazardous Areas.</p> <p>2.0 Electric Motors And Generators.</p> <p>3.0 Switchgear.</p> <p>4.0 Protection Systems.</p> <p>5.0 Cables And Power Transformers.</p> <p>6.0 Power Electronics.</p> <p>7.0 Lighting.</p> <p>8.0 Earthing.</p> <p>9.0 Buildings.</p> <p>10.0 Emergency And Standby Systems.</p> <p>11.0 Portable Electric Tools And Equipment.</p> <p>12.0 High Voltage Overhead Lines.</p>	<ul style="list-style-type: none"> ◆ Describe The Maintenance Procedures Used For Various Types Of Electrical Equipment Used In Industry ◆ State The Proper Maintenance Intervals For Specific Type Of Equipment 	7 DAYS
UNIT E-20	ISSOW: ENERGY ISOLATION, LOCKOUT AND TAGOUT (ELECTRICAL)	<p>1.0 Purpose.</p> <p>2.0 Scope.</p> <p>3.0 Definitions And Abbreviations.</p> <p>4.0 Roles And Responsibilities.</p> <p>5.0 Procedure.</p> <p>6.0 Lockout And Tagout Procedure.</p> <p>7.0 General Guideline For Use Of Lockout Tagout.</p> <p>8.0 Regulatory And Standard Regulation.</p>	<p>Our Goals are simply stated:</p> <ul style="list-style-type: none"> ◆ No accidents ◆ No harm to people ◆ No damage to the environment 	7 Days



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