

Sr. No.	Topics
1	<b>Safety Management:</b> <ul style="list-style-type: none"><li>• Basic Principal of Electrical Accident Prevention</li><li>• Fundamentals and Dangers from Electricity</li><li>• Tool Box Talk (TBT), PTW Permit to work (PTW) and Lock Out Tag Out (LOTO)</li></ul>
2	<b>Hazards Identification &amp; Risk Assessment (HIRA) and assignment</b>
3	<b>Safe Work Method Statement (SWMS) based on Story Board – Basic Concept &amp; Assignments</b>
4	<b>Five Golden Rules of Electrical Safety (with video explanation)</b>
5	<b>Electrical Emergency Handling, Rescue, and Incident Reporting</b>
6	<b>Single Line Diagram and its important</b>
7	<b>Protection systems (Overload, Earth Fault, Short Circuit, Diff. etc.)</b>
8	<b>Switchyard &amp; Outdoor Equipment's:</b> <ul style="list-style-type: none"><li>• HT &amp; LT Switch boards</li><li>• Transformers</li><li>• Working Near Live Parts (Switchyard, Switch Boards) - Partial shutdowns</li></ul>
9	<b>Safe Work Method Statement (SWMS) – Assignment Status Review</b>
10	<b>IE Rules</b>
11	<b>Earthing / Grounding System</b>

# SITRUST™ - 3 Days Online Industrial Electrical Safety Training

- 
- |    |   |
|----|---|
| 12 | <b>RCCB, RCBO, MCB, AFDD (Arc Fault Detection Device)</b> |
|----|---|
- 
- |    |   |
|----|---|
| 13 | <b>Construction Power / Temporary Power</b> |
|----|---|
- 
- |    |  |
|----|--|
| 14 | <b>Electric Power Tools / Hot Work</b> |
|----|--|
- 
- |    |   |
|----|---|
| 15 | <b>Personal Protective Equipment's (PPEs) for Electrical work</b> |
|----|---|
- 
- |    |   |
|----|---|
| 16 | <b>Arc Flash Hazard &amp; Mitigation Measures</b> |
|----|---|
- 
- |    |   |
|----|---|
| 17 | <b>Safe Work Method Statement (SWMS) – Presentation by Participants</b> |
|----|---|
- 
- |    |   |
|----|---|
| 18 | <b>Assessment:</b><br>Safety Commitment, Training Feedback and SITRUST Online Examination |
|----|---|

## Sr. No. Topics – Day 1

1 Safety Management

- Why Safety?
- Zero Harm Culture

2 Dangers from Electricity, Fundamentals of Electricity

3 Basic Principal of Electrical Accident Prevention

Golden Rules of Electrical Safety - Siemens Video Based Interactions

- Disconnection from Supply (Isolation)
- Safeguard against reconnection (LOTO)
- Verify the safe isolation from supply (Absence of Voltage)
- Earth and Short Circuit
- Corden off Neighboring Live Parts

4 Electrical Emergency Handling, Rescue, and Incident Reporting

5 Learning from Past Incidents and Route Causes

### Lunch Break

6 Case Studies & Importance of Safe Work Method Statement (SWMS)  
Story board and Assignments for preparation of SWMS

7 Importance of Single Line Diagram

8 Temporary Power Supply Distribution

9 Earthing / Grounding System

10 RCCB, MCB, AFDD

# SITRUST™ - 2 Days Online Industrial Electrical Safety Training

---

11 Importance of Protection in Electrical Systems

---

12 IP protection and its Importance

---

13 Personal Protective Equipment's, IE Rules

---

## **Sr. No. Topics – Day 2**

15 Recap of Day 1

---

16 Assignments - SWMS Discussion & Review

---

17 LV Panels, HV Panels

---

18 Transformers, Motors

---

19 Cables, Battery, Capacitors

---

## **Lunch Break**

20 Static Electricity

---

21 Hazardous area Classification

---

22 Working Near Live Parts under partial shutdown conditions

---

23 Arc Flash Study & It's Importance

---

24 Assignments - SWMS Discussion & Review

---

25 Safety Commitment, Feedback and Assessment

---

SITRUST™ - 3 Hours Online Industrial Electrical Safety Training Module 1: Dangers of Electricity & Golden Rules of Electrical Safety

siemens.co.in

Sr. No.	Topics	Duration
1	<b>Dangers from Electricity</b> <ul style="list-style-type: none"> <li>Fundamentals of Electrical Safety</li> <li>Dangers of Electrical Safety</li> </ul>	
2	<b>Golden Rules of Electrical Safety - Siemens Video Based Interactions</b> <ul style="list-style-type: none"> <li>Disconnection from Supply (Isolation)</li> <li>Safeguard against reconnection (LOTO)</li> <li>Verify the safe isolation from supply (Absence of Voltage)</li> <li>Earthing and Shorting</li> <li>Corden off Neighboring Live Parts</li> </ul>	<b>1.5 Hours</b>
<b>Break (10 Mins)</b>		
	<ul style="list-style-type: none"> <li>Importance of Earthing &amp; Grounding System</li> <li>Various type of earthing</li> </ul>	<b>1.5 Hours</b>

**Who Should Attend? Professionals from all across Industry Sectors**

## SITRUST™ - 3 Hours Online Industrial Electrical Safety Training Module 2: Arc Flash & Safety Protection Measures

siemens.co.in

Sr. No.	Topics	Duration
1	<b>Arc Flash &amp; Safety Protection Measures</b> <ul style="list-style-type: none"><li>• Importance of Arc Flash Study</li><li>• Incident Energy, Hazard Category &amp; Selection of PPE</li><li>• IP protection and its Importance</li></ul>	<b>1.5 Hours</b>
<b>Break (10 Mins)</b>		
	<ul style="list-style-type: none"><li>• Static Electricity</li><li>• Electrical Equipment's in Hazardous Area</li></ul>	<b>1.5 Hours</b>

**Who Should Attend? Professionals from all across Industry Sectors**

SITRUST™ - 3 Hours Online Industrial  
Electrical Safety Training Module 3:  
Electrical Safety & Importance of  
Protection System

siemens.co.in

Sr. No.	Topics	Duration
1	<b>Electrical Safety &amp; Importance of Protection System</b> <ul style="list-style-type: none"><li>Residual Current Circuit Breaker</li><li>Arc Fault Detector Device</li></ul>	<b>1.5 Hours</b>
<b>Break (10 Mins)</b>		
	<ul style="list-style-type: none"><li>Importance of Single Line Diagram (SLD)</li><li>Overload, Short Circuit and other Protections</li></ul>	<b>1.5 Hours</b>

**Who Should Attend? Professionals from all across Industry Sectors**

SITRUST™ - 3 Hours Online Industrial  
Electrical Safety Training Module 4:  
Safety while working on Electrical  
Equipment

siemens.co.in

Sr. No.	Topics	Duration
1	<b>Safety while working on Electrical Equipment</b> <ul style="list-style-type: none"><li>Indoor Equipment's – High Voltage (HV) Panels, Low Voltage (LV) Panels, Transformers</li></ul>	<b>1.5 Hours</b>
<b>Break (10 Mins)</b>		
	<ul style="list-style-type: none"><li>Cables, Capacitors, Battery Banks</li></ul>	<b>1.5 Hours</b>
	<ul style="list-style-type: none"><li>Partial Shutdown Works and Safety Measures</li></ul>	

**Who Should Attend? Professionals from all across Industry Sectors**