



- ❖ L&T's Switchgear Training Centre-Vadodara has specially designed training programs for Electrical Engineering Students to abridge the gap between Academics & latest Technology/Trends in Industries.
- ❖ Training Centre is Part of "Switchgear Manufacturing Plant - L&T Electrical & Automation."
- ❖ Duration of programs for Pre-Final & Final year Students are for 3 & 5 Days.

Key Features of Training Programs

- Training Modules designed with Perfect Blending of Theory & Practical Sessions.
- Workshop for all the Switchgear & Automation Products with the Testing Facilities.
- Technical Contents purely generic in Nature having reference to globally accepted IEC / IS standards
- State of the Art Infrastructure for Training i.e. Audio-Video Aids, Lab/Workshop & Lecture Halls.
- A Special Session on "CAMPUS to Corporate transition" by Senior Management of L&T.
- Pre-Quiz & Post-Quiz for Students on each Day to evaluate the effectiveness of Training.
- Students awarded L&T's certificate for successfully attending the Training Program.

Click on Program Code to view the Details

For whom	Program Code	Duration
Electrical Students*	SP3	3 Days
	SP5	5 Days

Click here For Registration

- Eligibility: Only Pre-final & final year students of Electrical stream.



MCCB



ACB



HRC FUSE



VFD



Relay



Contactor



AGENDA: TRAINING PROGRAM (3 Days - Code SP3)		
Day 1	Welcome & Introduction	
	Pre Quiz	
	Introduction to Power System & Low Voltage(LV) System	
	LV Switchgear Terminologies	
	LV Air-break Contactors & Relevant IEC Standard 60947 - 4	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Specification & Terminologies • Applications & Utilization Categories • Selection criteria 	<ul style="list-style-type: none"> • Workshop Demonstration of Contactor • Practical Hands on by Participants • Testing of contactors
	Thermal Over Load Relays & Relevant IEC Standard 60947 - 4	
	<i>Theory</i>	<i>Practical</i>
<ul style="list-style-type: none"> • Specification & Features • Applications & Trip Class • Selection criteria 	<ul style="list-style-type: none"> • Workshop Demonstration • Practical Hands on by Participants • Testing of Relay 	
Day 2	Low Voltage HRC Fuses - As per IEC 60947-3	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories • Selection criteria 	<ul style="list-style-type: none"> • Demonstration of HRC Fuse • Hands on by Participants
	Low Voltage SDF units - As per IEC 60947 - 3	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories • Selection criteria 	<ul style="list-style-type: none"> • Workshop Demonstration of SDF • Practical Hands on by Participants
	Starters for three phase Induction Motors	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Understanding the application & Types of Starters • Understanding the Control Circuit & Power Circuit of the Starters 	<ul style="list-style-type: none"> • Demonstration of Starter Panels • Control wiring of motor starters
	Moulded Case Circuit Breakers (MCCBs) As per IEC 60947 - 2	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories 	<ul style="list-style-type: none"> • Workshop Demonstration • Practical Hands on by Participants • Testing of Various Protection releases
Day 3	Air Circuit Breakers (ACBs) - As per IEC60947 - 2	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Introduction & Technical Specifications • Applications & Utilization Categories • Protection with various micro-processor releases 	<ul style="list-style-type: none"> • Workshop Demonstration of ACB • Practical Hands on by Participants • Setting & testing of various protections releases
	Selection of MPCB, MCB, ELCB - As per IEC 60898	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Applications & Types • Selection criteria 	<ul style="list-style-type: none"> • Workshop Demonstration • Testing of MPCB, ELCB & MCB
	Variable Frequency Drives	
	<ul style="list-style-type: none"> • Introduction to VFDs 	<ul style="list-style-type: none"> • Initial programming of VFD
	Power Factor Improvement concept & Capacitors	
	Overview of Bus bar trunking systems & demo of BBT	
	Expert lecture on "Campus to Corporate transition"	
	Open Q & A and Post Quiz	
	Feedback & closing	

Time Allocation Training program - L1			
Days	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
Day - 1	4	4	8
Day - 2	3	5	8
Day - 3	3	5	8
Total	10	14	24

Day		AGENDA: TRAINING PROGRAM (5 Days -Code SP5)	
Day 1	Welcome & Introduction		
	Pre Quiz		
	Introduction to Power System & Low Voltage(LV) System		
	LV Switchgear Terminologies		
	LV Air-break Contactors & Relevant IEC Standard 60947 - 4		
	Theory		Practical
	<ul style="list-style-type: none"> • Specification & Terminologies • Applications & Utilization Categories • Selection criteria 		<ul style="list-style-type: none"> • Workshop Demonstration of Contactor • Practical Hands on by Participants • Testing of contactors
	Thermal Over Load Relays & Relevant IEC Standard 60947 - 4		
	Theory		Practical
	<ul style="list-style-type: none"> • Specification & Features • Applications & Trip Class • Selection criteria 		<ul style="list-style-type: none"> • Workshop Demonstration • Practical Hands on by Participants • Testing of Relay
Day 2	Low Voltage HRC Fuses - As per IEC 60269		
	Theory		Practical
	<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories • Selection criteria 		<ul style="list-style-type: none"> • Demonstration of HRC Fuse • Hands on by Participants
	Low Voltage SDF units - As per IEC 60947 - 3		
	Theory		Practical
	<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories • Selection criteria 		<ul style="list-style-type: none"> • Workshop Demonstration of SDF • Practical Hands on by Participants
	Starters for three phase Induction Motors		
	Theory		Practical
	<ul style="list-style-type: none"> • Understanding the application & Types of Starters • Understanding the Control Circuit & Power Circuit of the Starters 		<ul style="list-style-type: none"> • Demonstration of Starter Panels • Control wiring of motor starters
	Moulded Case Circuit Breakers (MCCBs) As per IEC 60947 - 2		
Theory		Practical	
<ul style="list-style-type: none"> • Specification & Features • Applications & Utilization Categories 		<ul style="list-style-type: none"> • Workshop Demonstration • Practical Hands on by Participants • Testing of Various Protection releases 	
Day 3	Air Circuit Breakers (ACBs) - As per IEC60947 - 2		
	Theory		Practical
	<ul style="list-style-type: none"> • Introduction & Technical Specifications • Applications & Utilization Categories • Protection with various micro-processor releases 		<ul style="list-style-type: none"> • Workshop Demonstration of ACB • Practical Hands on by Participants • Setting & testing of various protections releases
	Selection of MPCB, MCB, ELCB - As per IEC 60898		
	Theory		Practical
	<ul style="list-style-type: none"> • Applications & Types • Selection criteria 		<ul style="list-style-type: none"> • Workshop Demonstration • Testing of MPCB, ELCB & MCB
Power Factor Improvement concept & Capacitors			
Overview of Bus bar trunking systems & demo of BBT			
Day 4	Type - 2 Co-ordination as per IEC 60947		
	<ul style="list-style-type: none"> • Understanding Concept • Selection of Motor Feeder Components as per Type-2 Co-ordination & Case Studies 		
	Fault Level Calculation		
	<ul style="list-style-type: none"> • Need of Fault Level Calculations • Calculation of Fault level Current & Case studies 		
	Discrimination		
	Theory		Practical
<ul style="list-style-type: none"> • Understanding the Discrimination • Types of Discrimination 		Demo of Discrimination setup interfaced with the Software	

Day 5	Variable Frequency Drive & Applications	
	<i>Theory</i>	<i>Practical</i>
	<ul style="list-style-type: none"> • Basics of Motor & VFD • Main & Control Circuit configuration • Energy Savings with VFD • Advance Parameterization • VFD Vs. Soft starters 	<ul style="list-style-type: none"> • Demonstration • Auto Tuning of VFD • Basic Programing • Case Studies of Applications

Time Allocation Training program – L2			
Days	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
Day - 1	4	4	8
Day - 2	3	5	8
Day - 3	3	5	8
Day – 4	3	5	8
Day - 5	3	5	8
Total	16	24	40

Program Schedules for the FY 2019-20

Program Dates for 3 Days (SP3) & 5 Days (SP5) Training Program		
Months	SP-3	SP-5
Apr-19	22th to 24th	22nd to 26th
May-19	20th to 22th	20th to 24th
	27th to 29th	27th to 31st
Jun-19	10th to 12th	10th to 14th
	24th to 26th	24th to 28th
Jul-19	1st to 3rd	1st to 5th
	29th to 31st	29th to 02nd Aug
Aug-19	12th to 14th	12th to 16th
	26th to 28th	26th to 30th
Sep-19	16th to 18th	16th to 20th
	23rd to 25th	23rd to 27th
Oct-19	1st to 03rd	1st to 05th
	21st to 23rd	21st to 25th
Nov-19	4th to 6th	4th to 08th
	25th to 27th	25th to 29th
Dec-19	16th to 18th	16th to 20th
	23rd to 25th	23rd to 27th
Jan-20	6th to 8th	6th to 10th
	27th to 29th	27th to 31st
Feb-20	10th to 12th	10th to 14th
	24th to 26th	24th to 28th
Mar-20	23rd to 25th	23th to 27th



SWITCHGEAR TRAINING CENTRE

TRAINING COURSE REGISTRATION DETAILS

To confirm your booking:

1. Register yourself online through online form: <https://goo.gl/forms/zGoLs1fbVA3y3tLh2>
2. Fees should be paid in advance by way of Demand Draft drawn in favour of 'LARSEN AND TOUBRO LIMITED', payable at Vadodara.
3. Alternatively fees can be paid in advance by way of NEFT / RTGS to our bank a/c below:
Beneficiary Account Name : Larsen and Toubro Limited
Bank Name : State Bank of India
Branch : IIT Powai, Mumbai – 400076
IFSC code : SBIN0001109
Current Account No : 10725730100
PAN No. : AAACL0140P
GST No. : 24AAACL0140P6ZK
4. Registration will be confirmed only after receipt of the course fees.

Terms & Conditions:

- a) Participants will receive written confirmation of their registration, after which they should plan their journey to the Training Centre.
- b) All programmes are conducted on a 'best effort' basis.
- c) Participants are expected to make their own arrangements for lodging and boarding.
- d) Course Fees specified are valid until March 31, 2019 only.

Timings	8.30 AM - Reporting Time 8.45 AM to 9.15 AM - Breakfast 9.30 AM to 5.00 PM - Training 1.30 PM to 2.15 PM - Lunch
Batch Size	20 - 30 students (For more than 30 students -> 2 parallel batches in 2 halls)
Eligibility	Pre-final/final year degree electrical engineering students or Final year diploma electrical engineering students
Total Fees	<ul style="list-style-type: none">• Rs. 2500/ + GST (18%) for 3 Days Program• Rs.4000/- + GST (18%) for 5 Days Program• (Fees includes Tea, Breakfast, Lunch) for all training days.
Inclusions	Training course material, stationary and training Certificate of participation.
Address	Larsen & Toubro Ltd Switchgear Training Centre E&A, VSW, Ankhoh Plant, B/h Knowledge City, NH-8, B/w Ajwa Chokdi & Waghodia Chokdi, Vadodara-390019, Gujarat, India.



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