



Measuring without electromagnetic interference

Program

Instructor:

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Day 1

9:00 am - 9:15 am	Welcome and introduction to the seminar program
9:15 am - 10:15 am	Basic principles of electromagnetic compatibility <ul style="list-style-type: none">- History- Definitions- Types of coupling
10:15 am - 10:30 am	Coffee break
10:30 am - 12:00 noon	Signal theory <ul style="list-style-type: none">- Frequency spectrum- Filter- Floating and non-floating measurements- Common-mode/differential-mode interference
12:00 noon - 12:45 pm	Lunch
12:45 pm - 2:00 pm	Galvanic coupling <ul style="list-style-type: none">- Effects of real wires- Grounding concepts- EMC-compliant control cabinet structure
2:00 pm - 2:45 pm	Practical device training Deepen your understanding of concepts you have learned at several practical workstations
2:45 pm - 3:00 pm	Coffee break
3:00 pm - 4:45 pm	Practical device training Deepen your understanding of concepts you have learned at several practical workstations
4:45 pm - 5:00 pm	Summary and overview
5:00 pm	End of the first seminar day

Day 2

9:00 am - 9:40 am	Inductive coupling <ul style="list-style-type: none">- Protective methods- Twisted pair- Practical demonstrations
9:40 am - 10:20 am	Capacitive coupling <ul style="list-style-type: none">- Protective methods- Practical demonstrations
10:20 am - 10:40 am	Coffee break
10:40 am - 11:20 am	Shielding <ul style="list-style-type: none">- Comparison of shielded wires- Applying shields correctly- Shielding attenuation
11:20 am - 12:00 noon	Types of grid networks <ul style="list-style-type: none">- TT, IT and TN networks and their effects
12:00 noon - 12:45 pm	Lunch
12:45 pm - 2:00 pm	Carrier frequency method <ul style="list-style-type: none">- Introduction to the technology- Differences compared to the direct current method- Requirements for the wires
2:00 pm - 2:45 pm	Practical device training Deepen your understanding of concepts you have learned at several practical workstations
2:45 pm - 3:00 pm	Coffee break
3:00 pm - 4:45 pm	Practical device training Deepen your understanding of concepts you have learned at several practical workstations
4:45 pm - 5:00 pm	Concluding discussion and issuing of participation certificates
5:00 pm	End of the seminar