

Cable metrology academy

Never stop learning...



DESCRIPTION

At AESA, our aim is not only to provide our clients with effective testing solutions; we also assist them in enhancing their understanding and mastery of the technologies related to cable metrology, as well as in optimizing their ability to gain the full benefits of AESA equipment. With its long and extensive experience in the cable industry, AESA is proud to offer a wide array of training courses.

Our specialists can share their expertise and know-how on topics related to the wider aspects of cable metrology. Similarly, we offer training courses on more specific topics. Thus, personnel ranging from senior engineering level to technicians and installers can broaden their knowledge and increase their skills from such training opportunities.

Courses can be tailored to fit specific needs, and be delivered in different languages, either on your premises, or at AESA headquarters in Switzerland.

KEY FEATURES

- **Develop your knowledge**
 - enhance your understanding and the mastery of the technology related to cable metrology
 - understand how to sustain continuous improvement processes
 - understand what is behind cable specifications and standards
- **Understand the test results**
 - better reading and interpretation of measurement reports
- **Optimize your processes**
 - intelligent use of measurement results
- **For everybody**
 - for personnel ranging from senior engineering level to technicians and operators
 - standard and/or tailored training courses fitting specific needs



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TECHNICAL SPECIFICATIONS

Subjects (can be combined)	<ul style="list-style-type: none"> See below
Location	<ul style="list-style-type: none"> At AESA's premises On customer's site Via Internet (webinar)
Support	<ul style="list-style-type: none"> Course handbook PPT files
Teacher	<ul style="list-style-type: none"> AESA's specialists
Various	<ul style="list-style-type: none"> Can be done for one or multiple attendees Certificate delivered at the end of the session
Article No	66.0900.0002.0

LIST OF STANDARD TRAINING

Subject / Title	Contents	Duration
Symmetric Pair Cable	<ul style="list-style-type: none"> Introduction Required measurements Influence on the cable 	0.5 day
Low Frequency	<ul style="list-style-type: none"> Introduction Measured parameters (RCKE) Method and equipment Reading & interpreting values/report 	0.5 day
High Frequency basic	<ul style="list-style-type: none"> Introduction Basic parameters (Attenuation, IL, NEXT, RL, Impedance...) Method and equipment Reading & Interpreting values/report 	2 days
High Frequency advanced	<ul style="list-style-type: none"> Advanced parameters (wire parameter, in pair skew, ...) Balunless test method 	1 day
Screen Effectiveness	<ul style="list-style-type: none"> Introduction to EMC parameters (Transfer impedance TI, screening attenuation AS, coupling attenuation AC) Methods (triaxial, clamping method...) Interpretation of readings 	1 day
Balanced-common mode	<ul style="list-style-type: none"> Introduction to parameters (TCL, LCL, ELTCTL...) Method Interpretation of readings 	0.5 day
Linear Resistance	<ul style="list-style-type: none"> Introduction Type of cables (class 1, 2, 5, 6...) Method Uncertainties management 	1 day

EXAMPLES

Training Seminar

Why Twisted Pair

The idea is to reduce effect of the distortion by transmitting the signal normal (positive) and inverted (negative) over two wires which are close to each other ("Pair"). The receiver calculates the difference of the signals

To make sure the two wires are close to each other we twist them: "unshielded Twisted Pair".

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