



## Training Course Overview

- 1 - TSCM - Introduction
- 2 - TSCM - The Threat
- 3 - TSCM - Recommendations
- 4 - TSCM - Training Course Overview**
- 5 - TSCM - Training Course Syllabuses
- 6 - TSCM - Recommended Products
- 7 - TSCM - Technical Data Sheets
- 8 - TSCM - IP/PABX Manipulation
- 9 - TSCM - Commercial Quotations
- 10 - TSCM - Terms & Conditions
- 11 - TSCM - Contact Details
- 12 - Global Security Alliance

<b>TSCM TRAINING COURSE OVERVIEW</b>				
<b>Course No.</b>	<b>Course name</b>	<b>Duration</b>	<b>Location</b>	<b>Number of students</b>
8000	TSCM Search and Technical Course	2 weeks	Germany	6 students
8001	TSCM Advanced Cable Course	2 weeks	Germany	6 students
8002	TSCM Senior Management Course	1 week	Germany	4 students
8003	TSCM Technical Threat Course	1 week	Gamma	6 students
8004	TSCM Product Training Course	2 weeks	Germany	6 students
8005	PBX Manipulation Course	1 week	Germany	6 students
8006	PBX Advanced Manipulation Course	1 week	Germany	8 students
8007	PBX Senior Engineer Course	2 weeks	Germany	6 students
8008	ISP Manipulation Hacking Course	1 week	Germany	6 students
8009	ISP Manipulation Advanced Course	2 weeks	Germany	6 students
8010	TSCM Threat Assessment	1 week	customer	6 students
8011	TSCM Sweep Team Review	1 week	customer	No limit
8012	TSCM Equipment Audit	1 week	customer	No limit
8013	TSCM Product Training Course	2 weeks	customer	No limit
8014	PBX-ISP Penetration Assessment	1 week	customer	6 students
8015	PBX Turnkey Service Support	1 year	Varies	individual
8016	TSCM Sweeping of Cars	1 week	Germany	4 students

EXAMPLE OF A TSCM COURSE OFFER

COURSE OFFER

PROPOSAL FOR A 2-WEEK TSCM COURSE



TSCM TEST ROOM

LOCATION: TRAINING INSTITUTE AND END-USER LOCATIONS

## EXAMPLE OF A TSCM COURSE OFFER

## COURSE OFFER

### TSCM TRAINING COURSE

**Duration:** 2 Weeks

**Qualifications:** On the successful completion of the course, all students will receive a certificate including an individual assessment.

**Student Group:** The course has been designed for Government Security Agencies responsible for managing and carrying out Technical Surveillance sweeps. The technical level of the course is tailored to each individual group. Specific threats concerning the students can be incorporated into the course. The training is designed for 6 people.

**Aim:** To up date and manage a Sweep Team with an introduction to all forms of technical espionage; the art of carrying out a sweep, including search and location in friendly and unfriendly environments incorporating documentation and reporting techniques.

**Language:** The course is conducted in English.

**Objectives:** At the end of the course students will be able to demonstrate an understanding of:

- The threat of technical espionage
- Set up and manage a Sweep Team
- Practical training
- Physical search
- Reporting and Documentation
- Pre-Sweep equipment selection

**Location:** German (students should fly to Nuremburg Airport)

**Basic Training Package includes:**

- All teaching, practical and course work in Germany
- Course notes in hard copy and CD-ROM
- Individual student assessment
- Recommendations for future development of skills and equipment
- Designed for 6 persons

**Rate:**

Hotel accommodation - includes three daily meals, laundry, daily rate for 6 persons

**Payment Terms:** 50% on confirmation  
25% on commencement  
25% on completion

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## TSCM SEARCH AND TECHNICAL COURSE

TSE 8000

COURSE NO. 8000: TSCM SEARCH AND TECHNICAL COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics 1st week	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation of the company and syllabus</li> </ul> <p><b>The threat (1):</b></p> <ul style="list-style-type: none"> <li>Latest technologies</li> <li>Latest methods of wired and wireless transmissions</li> <li>Camouflage of bugs</li> <li>Demonstrations of sophisticated bugs</li> </ul>	<p><b>The threat (2):</b></p> <ul style="list-style-type: none"> <li>Telecommunication monitoring in PSTN</li> <li>Inhouse wiretaps</li> <li>Monitoring of wireless transmissions</li> </ul> <p><b>Counter-measures:</b></p> <ul style="list-style-type: none"> <li>The prevention of bugging</li> <li>Bug-proof rooms</li> <li>Methods of TSCM</li> <li>Overview equipment</li> <li>Demonstrations</li> </ul>	<p><b>Practical training (1):</b></p> <p>Cable measurement:</p> <ul style="list-style-type: none"> <li>Overview: Methods of cable measurement</li> <li>Basics and limits of Time-Domain-Reflectometer (TDR)</li> <li>NF- and VLF-Detection</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (2):</b></p> <p>Cable measurement:</p> <ul style="list-style-type: none"> <li>Detection of unknown wires</li> <li>Using a LAN-Tester</li> <li>Oscilloscope</li> <li>Multi meters</li> <li>Other equipment for cable measurement</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> <li>Repetition of cable measurement</li> </ul>	<p><b>Practical training (3):</b></p> <p>The physical search:</p> <ul style="list-style-type: none"> <li>Using NLDs</li> <li>IR-Thermalvision</li> <li>Demonstrations and practical exercises</li> </ul> <p><b>The threat (3):</b></p> <ul style="list-style-type: none"> <li>Telecommunication and room monitoring by software attacks against ISDN/PBXs</li> <li>Demonstrations</li> </ul>



## TSCM SEARCH AND TECHNICAL COURSE

TSE 8000

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Topics 2nd week</b>	<b>Practical training (4):</b> The physical search: <ul style="list-style-type: none"> <li>• The visual inspection of rooms and technically devices</li> <li>• Endoscopes and Video-Endoscopes</li> <li>• X-ray inspection by different systems</li> <li>• Metal-Detection</li> <li>• Demonstrations and practical exercises</li> <li>• Other equipment</li> </ul>	<b>Practical training (5):</b> RF-Detection: <ul style="list-style-type: none"> <li>• IR-Detection</li> <li>• Field strength-/Near-field-measurement</li> <li>• Sonic-Labeling and Silent Sound</li> <li>• Correlation</li> <li>• Difference-Spectrum-Analysis</li> <li>• Demonstrations and practical exercises</li> <li>• Preparing for sweep</li> </ul>	<b>Practical exercise (1):</b> <ul style="list-style-type: none"> <li>• Complete sweep of the bugged training-room by the participants (using full equipment)</li> <li>• Support by experienced instructors</li> </ul> <b>Discussion:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> </ul>	<b>Practical exercise (2):</b> <ul style="list-style-type: none"> <li>• Complete sweep of a bugged conference-room by the participants (using reduced equipment)</li> <li>• Support by experienced instructors</li> </ul> <b>Discussion:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> </ul>	<b>Practical exercise (3):</b> <ul style="list-style-type: none"> <li>• Complete sweep of a bugged hotel room by the participants (using minimum equipment)</li> <li>• Support by experienced instructors</li> </ul> <b>Summary:</b> <ul style="list-style-type: none"> <li>• Questions / results</li> <li>• Final discussion about the course</li> </ul>



## TSCM ADVANCED CABLE COURSE

TSE 8001

COURSE NO. 8001: TSCM ADVANCED CABLE COURSE (AT COBURG/GERMANY)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics 1st week	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation of the company and syllabus</li> </ul> <p><b>The threat (1):</b></p> <ul style="list-style-type: none"> <li>State-of-the-art technologies of wired transmissions</li> <li>Camouflage of bugs</li> <li>Demonstrations of sophisticated bugs</li> </ul>	<p><b>The threat (2):</b></p> <ul style="list-style-type: none"> <li>Overview telecommunication monitoring today</li> <li>Hard- and Software attacks</li> </ul> <p><b>Countermeasures:</b></p> <ul style="list-style-type: none"> <li>The prevention of wire tapping</li> <li>Bug-proof rooms</li> <li>Overview cable measurement</li> <li>Demonstrations</li> </ul>	<p><b>Practical training (1):</b></p> <p>RF detection for cable surveys:</p> <ul style="list-style-type: none"> <li>Field strength-/and Near field-measurement</li> <li>Sonic-Labeling and Silent Sound</li> <li>Correlation</li> <li>Difference-Spectrum-Analysis</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (2):</b></p> <p>The physical search for cable surveys:</p> <ul style="list-style-type: none"> <li>Using NLJDs</li> <li>Endoscopes and Video-Endoscopes</li> <li>X-ray inspection by different systems</li> <li>Other equipment</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical exercise (1):</b></p> <ul style="list-style-type: none"> <li>Physical check of bugged and tapped telecommunication facilities, telephone sets, adapters, plugs, and other accessories by the students</li> <li>Support by an experienced instructor</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions / results</li> </ul>

## TSCM ADVANCED CABLE COURSE

TSE 8001

Topics 2nd week				
Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>Practical training (3):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>The inductive Defection of unknown wires</li> <li>NF- and VLF- Defection</li> <li>Multi meters</li> <li>Oscilloscopes</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (4):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>Time-Domain-Reflectometer (TDR) as the main method:               <ul style="list-style-type: none"> <li>Physical basics</li> <li>Advantages and disadvantages</li> <li>Limits of this technology</li> </ul> </li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (5):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>Using a LAN-Tester in structured networks (e.g. CAT5)</li> <li>Demonstrations</li> <li>Other equipment for cable measurement</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> <li>Preparing for the exercises next day</li> </ul>	<p><b>Practical exercise (2):</b></p> <ul style="list-style-type: none"> <li>Cable sweep of tapped in-house wiring by the students</li> <li>Support by an experienced instructor</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions / results</li> <li>Preparing for the exercises next day</li> </ul>	<p><b>Practical exercise (3):</b></p> <ul style="list-style-type: none"> <li>Cable sweep of unknown tapped wiring between buildings by the students</li> <li>Support by an experienced instructor</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions / results</li> <li>Final discussion about the course</li> </ul>

TSE 8002

TSCM SENIOR MANAGEMENT COURSE

COURSE NO. 8002: TSCM SENIOR MANAGEMENT COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Topics</b>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation of the company and syllabus</li> </ul> <p><b>Countermeasures:</b></p> <ul style="list-style-type: none"> <li>The prevention of bugging</li> <li>Bug-proof rooms</li> <li>Methods of TSCM</li> <li>Overview of equipment</li> <li>Demonstrations</li> </ul>	<p><b>Management (1):</b> TSCM for Supervisors:</p> <ul style="list-style-type: none"> <li>Typical tasks of a sweep team</li> <li>How to set up a sweep team</li> <li>The personnel requirements</li> <li>The technical requirements</li> <li>Managing a sweep team</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> </ul>	<p><b>Management (2):</b> TSCM for Supervisors:</p> <ul style="list-style-type: none"> <li>Why and how to carry out location checks</li> <li>Known, unknown, own and strange buildings</li> <li>Organizational aids:               <ul style="list-style-type: none"> <li>Checklists</li> <li>Software</li> </ul> </li> <li>Domestic and foreign logistics</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> </ul>	<p><b>Management (3):</b> TSCM for Supervisors:</p> <ul style="list-style-type: none"> <li>Preparing a sweep</li> <li>How to carry out sweeps abroad</li> <li>Improvised sweeps</li> <li>The supervision of a sweep</li> <li>Reporting and documentation               <ul style="list-style-type: none"> <li>Photos</li> <li>Written reports</li> <li>Databases</li> </ul> </li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> </ul>	<p><b>Practical exercise:</b></p> <ul style="list-style-type: none"> <li>Supervision of a sweep by the students (sweep carried out by the organizer's sweep team)</li> <li>Support by experienced instructors</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions / results</li> <li>Final discussion about the course</li> </ul>

## TSCM PRODUCT TRAINING COURSE

TSE 8004

COURSE NO. 8004: TSCM PRODUCT TRAINING COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics 1st week	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Greeting</li> <li>• Presentation of the company and syllabus</li> </ul> <p><b>Repetition:</b></p> <ul style="list-style-type: none"> <li>• Latest methods of wired and wireless transmissions</li> <li>• Camouflage of bugs</li> <li>• Methods of TSCM</li> <li>• Overview equipment</li> <li>• Demonstrations</li> </ul>	<p><b>Product training (1):</b> Detection of active wireless transmissions:</p> <ul style="list-style-type: none"> <li>• IR-Detection</li> <li>• Field strength-measurement</li> <li>• Near field-measurement</li> <li>• Frequency-Counters and other Receivers</li> <li>• Practical exercises by the students</li> </ul>	<p><b>Product training (2):</b> Detection of active wireless transmissions:</p> <ul style="list-style-type: none"> <li>• Sonic-Labeling</li> <li>• Silent Sound</li> <li>• Correlation</li> <li>• Spectrum-Analysis</li> <li>• Difference-Spectrum-Analysis</li> <li>• Practical exercises by the students</li> <li>• Repetition of RF-measurement</li> </ul>	<p><b>Product training (3):</b> The physical search:</p> <ul style="list-style-type: none"> <li>• Using NLJDs</li> <li>• (Dis-)advantages of different types</li> <li>• Metal-Detection by different systems</li> <li>• IR-Thermal vision for TSCM (active and passive)</li> <li>• Practical exercises by the students</li> </ul>	<p><b>Product training (4):</b> The physical search:</p> <ul style="list-style-type: none"> <li>• The visual inspection of rooms and technical devices</li> <li>• Endoscopes and Video-Endoscopes</li> <li>• X-ray inspection by different systems</li> <li>• Other equipment</li> <li>• Practical exercises by the students</li> <li>• Repetition of the physical search</li> </ul>

## TSCM PRODUCT TRAINING COURSE

TSE 8004

	Monday	Tuesday	Wednesday	Thursday	Friday
Topics 2nd week	<p><b>Product training (5):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>The inductive Detection of unknown wires</li> <li>NF- and VLF-Detection</li> <li>Multimeters</li> <li>Oscilloscopes</li> <li>Practical exercises by the students</li> </ul>	<p><b>Product training (6):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>Time-Domain-Reflectometer (TDR) as the main method:                             <ul style="list-style-type: none"> <li>Physical basics</li> <li>Advantages and disadvantages</li> <li>Limitations of this technology</li> </ul> </li> <li>Practical exercises by the students</li> </ul>	<p><b>Product training (7):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>Using a LAN-Tester in structured networks (e.g. CAT5)</li> <li>Demonstrations</li> <li>Other equipment for cable measurement</li> <li>Practical exercises by the students</li> <li>Preparing for the sweeps next days</li> </ul>	<p><b>Practical exercise (1):</b></p> <ul style="list-style-type: none"> <li>Sweep of the bugged training-room by the students (using full equipment)</li> <li>Support by an experienced instructor</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Evaluation of the search results</li> </ul>	<p><b>Practical exercise (2):</b></p> <ul style="list-style-type: none"> <li>Sweep of a bugged hotel room by the students</li> <li>Support by an experienced instructor</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Evaluation of the search results</li> <li>Final discussion about the course</li> </ul>

## PBX MANIPULATION COURSE

TSE 8005

COURSE NO. 8005: PBX MANIPULATION COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation of the company and syllabus</li> </ul> <p><b>The threat (1):</b></p> <ul style="list-style-type: none"> <li>Software attacks against ISDN PBXs:</li> <li>Telecommunication and room monitoring by software</li> <li>Hacking of PBX remote-access-ports</li> <li>Typical mistakes in configuration</li> </ul>	<p><b>Practical training (1):</b></p> <ul style="list-style-type: none"> <li>Software attacks against ISDN PBXs demonstrated on different types:</li> <li>War-dialling and Live-Hacking</li> <li>Manipulation of PBX features for telecommunication and room monitoring</li> <li>Interception of VoIP</li> <li>WAN-LAN-access</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>The threat (2):</b></p> <ul style="list-style-type: none"> <li>In-house Wiretaps</li> <li>The bugging of extensions and telecommunication equipment</li> <li>Demonstrations</li> </ul> <p><b>Practical training (2):</b></p> <ul style="list-style-type: none"> <li>Cable measurement:</li> <li>Overview: Methods of cable measurement</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (3):</b></p> <ul style="list-style-type: none"> <li>Cable measurement:</li> <li>Detection of unknown wires</li> <li>NF- and VLF-Defection</li> <li>Basics and limits of Time-Domain-Reflectometer (TDR)</li> <li>Using a LAN-Tester</li> <li>Other equipment for cable measurement</li> <li>Demonstrations</li> <li>Practical exercises by the Students</li> </ul>	<p><b>The threat (3):</b></p> <ul style="list-style-type: none"> <li>Telecommunication monitoring in PSTN</li> <li>Monitoring of wireless transmissions</li> <li>Demonstrations</li> </ul> <p><b>Countermeasures</b></p> <ul style="list-style-type: none"> <li>Software Audits and the protection of PBXs and wiring</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Final discussion about the course</li> </ul>



## PBX ADVANCED MANIPULATION COURSE

TSE 8006

COURSE NO. 8006: PBX ADVANCED MANIPULATION COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Topics</b>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation: Company and syllabus</li> </ul> <p><b>The threat:</b> Software attacks against ISDN and VoIP PBXs:</p> <ul style="list-style-type: none"> <li>Monitoring by software</li> <li>Hacking of PBX remote-access-ports</li> <li>Typical mistakes in configuration</li> </ul>	<p><b>Practical training (1):</b> PBX manipulations of SIEMENS Hi path 4000: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>War-dialling and Live-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (2):</b> PBX manipulations of NORTEL Meridian 1: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>The difficulty of NORTEL-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (3):</b> PBX manipulations of ALCATEL Omni PCX 4400: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>War-dialling and Live-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (4):</b> PBX manipulations of ERICSSON MD110: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>The difficulty of ERICSSON-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> <li>Questions</li> <li>Final discussion about the course</li> </ul>



## PBX SENIOR ENGINEER COURSE

TSE 8007

COURSE NO. 8007: PBX SENIOR ENGINEER COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics 1st week	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation: Company and syllabus</li> </ul> <p><b>The threat (1):</b> Software attacks against ISDN and VoIP PBXs:</p> <ul style="list-style-type: none"> <li>Monitoring by software</li> <li>Hacking of PBX remote-access-ports</li> <li>Typical mistakes in configuration</li> </ul>	<p><b>Practical training (1):</b> PBX manipulations of SIEMENS Hi path 4000: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>War-dialling and Live-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (2):</b> PBX manipulations of NORTEL Meridian 1: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>The difficulty of NORTEL-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (3):</b> PBX manipulations of ALCATEL Omni PCX 4400: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>War-dialling and Live-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>	<p><b>Practical training (4):</b> PBX manipulations of ERICSSON MD110: Demonstrations and practical exercises:</p> <ul style="list-style-type: none"> <li>Basics</li> <li>The difficulty of ERICSSON-Hacking</li> <li>Manipulation of PBX features for Monitoring</li> <li>WAN-LAN-access</li> <li>Countermeasures and Software Audits</li> </ul>

**TSE 8007**

**PBX SENIOR ENGINEER COURSE**

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Topics 2nd week</b>	<p><b>Practical training (5):</b> Additional practical exercises by the students:</p> <ul style="list-style-type: none"> <li>• War-dialling and Live-Hacking</li> <li>• Interception of VoIP</li> <li>• The protection of PBXs</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Repetition</li> </ul>	<p><b>Practical training (6):</b> Additional practical exercises by the students:</p> <ul style="list-style-type: none"> <li>• Manipulation of PBX features for Monitoring on SIEMENS, ERICSSON, ALCATEL and NORTEL platforms</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Repetition</li> </ul>	<p><b>The threat (2):</b></p> <ul style="list-style-type: none"> <li>• In-house Wiretaps</li> <li>• The bugging of extensions and telecommunication equipment</li> <li>• Demonstrations</li> </ul> <p><b>Practical training (7):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>• Overview: Methods of cable measurement</li> </ul>	<p><b>Practical training (8):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>• Basics and limits of Time-Domain-Reflectometer (TDR)</li> <li>• NF- and VLF-Detection</li> <li>• Oscilloscope</li> <li>• Multimeters</li> <li>• Demonstrations</li> <li>• Practical exercises by the students</li> </ul>	<p><b>Practical training (9):</b> Cable measurement:</p> <ul style="list-style-type: none"> <li>• Detection of unknown wires</li> <li>• Using a LAN-Tester</li> <li>• Other equipment for cable measurement</li> <li>• Demonstrations and practical exercises</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Final discussion about the course</li> </ul>

## ISP MANIPULATION HACKING COURSE

TSE 8008

COURSE NO. 8008: ISP MANIPULATION HACKING COURSE (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Topics</b>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation: Company and syllabus</li> </ul> <p><b>The threat (1):</b> Hacking for Administrators</p> <ul style="list-style-type: none"> <li>Hacking tools</li> <li>Virus construction sets and Trojans</li> <li>Port-scanning</li> <li>Buffer Overflows</li> <li>URL attacks</li> <li>Path climbing</li> <li>Browser attacks</li> <li>Demonstrations</li> </ul>	<p><b>The threat (2):</b> Hacking for Administrators</p> <ul style="list-style-type: none"> <li>Man-in-the-Middle attacks (encryption)</li> <li>Firewall Hacking</li> <li>Advanced scanning techniques</li> <li>Scanning tools</li> <li>Boot attacks</li> <li>DoS and DDoS</li> <li>Password-Cracking</li> <li>Attacks against Web-Applications</li> <li>Social engineering</li> <li>Demonstrations and practical exercises</li> </ul>	<p><b>Practical training (1):</b> LAN and Internet-Live-Hacking:</p> <ul style="list-style-type: none"> <li>LAN-Sniffing</li> <li>Firewall "Piercing"</li> <li>DNS Spoofing</li> <li>DoS attack</li> <li>Boot attack demo</li> <li>Penetration testing</li> <li>Security tools</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> </ul>	<p><b>Practical training (2):</b> WLAN-Hacking:</p> <ul style="list-style-type: none"> <li>Basics of WLAN technology</li> <li>WLAN Implementing</li> <li>WLAN Hacking tools</li> <li>WLAN Sniffing</li> <li>Penetration testing</li> <li>DoS against WLAN</li> <li>WLAN Security</li> <li>Demonstrations</li> <li>Practical exercises by the students</li> <li>Common War Driving (live test)</li> </ul>	<p><b>Practical training (3):</b> IT-Forensic:</p> <ul style="list-style-type: none"> <li>LAN-Analysis</li> <li>Basics of File Systems</li> <li>Preparing Images, e.g. from HDD, RAM</li> <li>Securing of fleeting evidence</li> <li>Recovery of deleted evidence</li> <li>Demonstrations</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions / results</li> <li>Final discussion about the course</li> </ul>

TSE 8011

TSCM SWEEP TEAM REVIEW

COURSE NO. 8011: TSCM SWEEP TEAM REVIEW (END USER COUNTRY)						
	Sunday	Monday	Tuesday	Wednesday	Thursday	
Topics	<b>Introduction:</b> <ul style="list-style-type: none"> <li>• Visiting the customers facilities</li> <li>• Checking the existing TSCM equipment</li> </ul>	<b>Practical exercise (1):</b> <ul style="list-style-type: none"> <li>• Sweep of a bugged hotel room by the students</li> <li>• Support by an experienced instructor</li> </ul>	<b>Practical exercise (2):</b> <ul style="list-style-type: none"> <li>• Sweep of a bugged conference room by the students</li> <li>• Support by an experienced instructor</li> </ul>	<b>Practical exercise (3):</b> <ul style="list-style-type: none"> <li>• Sweep of a bugged office by the students</li> <li>• Support by an experienced instructor</li> </ul>	<b>Practical exercise (4):</b> <ul style="list-style-type: none"> <li>• Sweep of a bugged living room by the students</li> <li>• Support by an experienced instructor</li> </ul>	
	<b>Repetition</b>	<b>Discussion:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Preparing for the sweep next day</li> </ul>	<b>Discussion:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Preparing for the sweep next day</li> </ul>	<b>Discussion:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Preparing for the sweep next day</li> </ul>	<b>Summary:</b> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Final discussion about the course</li> </ul>	
	<b>Countermeasures:</b> <ul style="list-style-type: none"> <li>• The prevention</li> <li>• Methods of TSCM</li> <li>• Overview</li> <li>• equipment</li> <li>• Preparing for the sweep next day</li> </ul>					

TSE 8012

TSCM EQUIPMENT AUDIT

COURSE NO. 8012: TSCM EQUIPMENT AUDIT (END USER COUNTRY)					
	Sunday	Monday	Tuesday	Wednesday	Thursday
Topics	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Visiting the customer's facilities</li> <li>• Checking the existing TSCM equipment</li> </ul> <p><b>Repetition: The threat (1):</b></p> <ul style="list-style-type: none"> <li>• Latest technologies of technical espionage</li> <li>• Latest methods of wired and wireless transmissions</li> <li>• Camouflage of bugs</li> </ul>	<p><b>Repetition: The threat (2):</b></p> <ul style="list-style-type: none"> <li>• Telecommunication monitoring in PSTN</li> <li>• In-house Wiretaps</li> <li>• Monitoring of wireless transmissions</li> </ul> <p><b>Repetition: Countermeasures:</b></p> <ul style="list-style-type: none"> <li>• The prevention of bugging</li> <li>• Bug-proof rooms</li> <li>• Methods of TSCM</li> <li>• Overview equipment</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> </ul>	<p><b>Practical training (1):</b></p> <p>Cable measurement with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• Detection of unknown wires</li> <li>• NF- and VLF-Detection</li> <li>• Basics and limits of Time-Domain-Reflectometer (TDR)</li> <li>• Using a LAN-Tester</li> <li>• Other equipment for cable measurement</li> <li>• Demonstrations</li> <li>• Practical exercises by the Students</li> </ul>	<p><b>Practical training (2):</b></p> <p>The physical search with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• Visual inspection of rooms and technical equipment</li> <li>• Using optical Endoscopes and other optical aids</li> <li>• X-ray inspection</li> <li>• Using the NLJD</li> <li>• Metal-Detection</li> <li>• Other equipment for physical search</li> <li>• Demonstrations</li> <li>• Practical exercises by the Students</li> </ul>	<p><b>Practical training (3):</b></p> <p>RF-Detection with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• IR-Detection</li> <li>• Field strength-/Near-field-measurement</li> <li>• Sonic-Labeling and Silent Sound Correlation</li> <li>• Spectrum-Analysis</li> <li>• Other equipment for RF-measurement</li> <li>• Practical exercises by the Students</li> </ul> <p><b>summary:</b></p> <ul style="list-style-type: none"> <li>• Final discussion about the course</li> </ul>

## TSCM PRODUCT TRAINING COURSE

TSE 8013

COURSE NO. 8013: TSCM PRODUCT TRAINING COURSE (END USER COUNTRY)					
	Sunday	Monday	Tuesday	Wednesday	Thursday
1st week (Instructor 1)	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Visiting the customer's facilities</li> <li>• Checking the existing equipment for RF- and cable measurement</li> </ul> <p><b>Product training (1):</b></p> <ul style="list-style-type: none"> <li>• Overview: Cable measurement</li> <li>• Practical exercises</li> </ul>	<p><b>Product training (2):</b></p> <p>Cable measurement with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• NF- and VLF-Detection</li> <li>• Detection of unknown wires</li> <li>• Basics and limits of Time-Domain-Reflectometer (TDR)</li> <li>• Practical exercises</li> </ul>	<p><b>Product training (3):</b></p> <p>Cable measurement with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• Oscilloscope</li> <li>• Multi meters</li> <li>• Using a LAN-Tester</li> <li>• Other equipment for cable measurement</li> <li>• Practical exercises</li> <li>• Repetition of cable measurement</li> </ul>	<p><b>Product training (4):</b></p> <p>Detection of active wireless transmissions:</p> <ul style="list-style-type: none"> <li>• IR-Detection</li> <li>• Field strength-measurement</li> <li>• Near field-measurement</li> <li>• Frequency-Counters and other Receivers</li> <li>• Practical exercises</li> </ul>	<p><b>Product training (5):</b></p> <p>Detection of active wireless transmissions:</p> <ul style="list-style-type: none"> <li>• Sonic-Labeling</li> <li>• Silent Sound</li> <li>• Correlation</li> <li>• Spectrum-Analysis</li> <li>• Difference-Spectrum-Analysis</li> <li>• Practical exercises</li> <li>• Repetition of RF-measurement</li> </ul>



## TSCM PRODUCT TRAINING COURSE

TSE 8013

2nd week (Instructor 2)				
Sunday	Monday	Tuesday	Wednesday	Thursday
<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Visiting the customer's facilities</li> <li>• Checking the existing equipment for physical search</li> </ul> <p><b>Product training (6):</b></p> <p>The physical search measurement with the customer's equipment:</p> <ul style="list-style-type: none"> <li>• Using NLJDs</li> <li>• (Dis-)advantages of different types</li> <li>• Practical exercises</li> </ul>	<p><b>Product training (7):</b></p> <p>The physical search:</p> <ul style="list-style-type: none"> <li>• Metal-Detection</li> <li>• IR-Thermal vision</li> <li>• Visual inspection</li> <li>• Endoscopes and Video-Endoscopes</li> <li>• X-ray inspection by different systems</li> <li>• Other equipment</li> <li>• Practical exercises</li> <li>• Repetition of physical search</li> <li>• Preparing for sweep the next day</li> </ul>	<p><b>Practical exercise (1):</b></p> <ul style="list-style-type: none"> <li>• Sweep of a bugged office by the students (using full equipment)</li> <li>• Support by an experienced instructor</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Preparing for the sweep next day</li> </ul>	<p><b>Practical exercise (2):</b></p> <ul style="list-style-type: none"> <li>• Sweep of a bugged conference room by the students (using reduced equipment)</li> <li>• Support by an experienced instructor</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Preparing for the sweep next day</li> </ul>	<p><b>Practical exercise (3):</b></p> <ul style="list-style-type: none"> <li>• Sweep of a bugged hotel room by the students</li> <li>• Support by an experienced instructor</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Evaluation of the search results</li> <li>• Final discussion about the course</li> </ul>



## PBX-ISP PENETRATION ASSESSMENT

TSE 8014

COURSE NO. 8014: PBX-ISP PENETRATION ASSESSMENT (END USER COUNTRY)					
	Sunday	Monday	Tuesday	Wednesday	Thursday
<b>Topics</b>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Visiting the customer's facilities</li> <li>• Checking the existing PBX equipment</li> </ul> <p><b>The threat (1):</b></p> <p>ISDN PBXs:</p> <ul style="list-style-type: none"> <li>• Telecommunication and room monitoring by software</li> <li>• Hacking of PBX remote-access-ports</li> <li>• Typical mistakes in configuration</li> <li>• Manipulation of PBX features</li> <li>• Interception of VoIP</li> <li>• WAN-LAN-access</li> <li>• The protection of PBX's</li> </ul>	<p><b>The threat (2):</b></p> <p>Hacking for Administrators:</p> <ul style="list-style-type: none"> <li>• Hacking tools</li> <li>• Virus construction sets and Trojans</li> <li>• Port-scanning</li> <li>• Buffer Overflows</li> <li>• URL attacks</li> <li>• Path climbing</li> <li>• Browser attacks</li> <li>• Demonstrations</li> <li>• Practical exercises by the students</li> </ul>	<p><b>The threat (3):</b></p> <p>Hacking for Administrators:</p> <ul style="list-style-type: none"> <li>• Man-in-the-Middle attacks (encryption)</li> <li>• Firewall Hacking</li> <li>• Scanning tools</li> <li>• Boot attacks</li> <li>• DoS and DDoS</li> <li>• Password-Cracking</li> <li>• Attacks against Web-Applications</li> <li>• Social engineering</li> <li>• Demonstrations</li> <li>• Practical exercises by the students</li> </ul>	<p><b>Practical training (1):</b></p> <p>LAN and Internet-Live-Hacking:</p> <ul style="list-style-type: none"> <li>• LAN-Sniffing</li> <li>• Firewall "Piercing"</li> <li>• DNS Spoofing</li> <li>• DoS attack</li> <li>• Boot attack demo</li> <li>• Penetration testing</li> <li>• Security tools</li> <li>• Demonstrations</li> <li>• Practical exercises by the students</li> </ul>	<p><b>Practical training (2):</b></p> <p>WLAN-Hacking:</p> <ul style="list-style-type: none"> <li>• Basics of WLAN</li> <li>• WLAN Implementing</li> <li>• WLAN Hacking tools</li> <li>• WLAN Sniffing</li> <li>• Penetration testing</li> <li>• DoS against WLAN</li> <li>• WLAN Security</li> <li>• Demonstrations</li> <li>• Practical exercises by the students</li> <li>• Common War Driving (live test)</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>• Questions</li> <li>• Final discussion about the course</li> </ul>

## TSCM SWEEPING OF CARS FOR PROFESSIONALS

TSE 8016

COURSE NO. 8016: TSCM SWEEPING OF CARS FOR PROFESSIONALS (TSCM LAB EUROPE)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Topics	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>Greeting</li> <li>Presentation of the company and syllabus</li> </ul> <p><b>Countermeasures:</b></p> <ul style="list-style-type: none"> <li>Basic knowledge of automotive electronics</li> <li>Communication technology in cars</li> <li>Hiding places and hollows in and under cars</li> <li>Considering bullet-proof cars</li> <li>Overview equipment for sweeping of cars</li> <li>Preparing for the car sweep next day</li> </ul>	<p><b>Practical exercise (1):</b></p> <p>Sweep of a bugged luxury car (e.g. Mercedes S-Class, BMW 7-series or AUDI A8) by the students:</p> <ul style="list-style-type: none"> <li>Briefing and technical instructions by an experienced mechanic</li> <li>Disassembling the interior</li> <li>Physical check of interior and cabin</li> <li>Support by an experienced instructor and mechanic</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Results of the day</li> </ul>	<p><b>Practical exercise (2):</b></p> <p>Sweep of a bugged luxury car by the students (part 2):</p> <ul style="list-style-type: none"> <li>Near field measurement</li> <li>Difference-Spectrum-Analysis</li> <li>X-ray inspection by different systems</li> <li>Disassembling the dashboard</li> <li>Measurement of Electronic Components</li> <li>Support by an experienced instructor and mechanic</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Results of the day</li> </ul>	<p><b>Practical exercise (3):</b></p> <p>Sweep of a bugged car by the students (part 3):</p> <ul style="list-style-type: none"> <li>Physical search in engine compartment and boot</li> <li>Reassembling of parts</li> <li>Visual inspection of the underside</li> <li>Using mirrors, Endoscopes and Video-Endoscopes</li> <li>Using NUDs</li> <li>Support by an experienced instructor and mechanic</li> </ul> <p><b>Discussion:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Results of the day</li> </ul>	<p><b>Practical exercise (4):</b></p> <p>Sweep of a bugged car by the students (part 4):</p> <ul style="list-style-type: none"> <li>Final checks and measurements</li> <li>Final reassembling of parts</li> <li>Test run</li> <li>Documentation and Reporting</li> <li>Support by an experienced instructor and mechanic</li> </ul> <p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Questions</li> <li>Evaluation of the search results</li> <li>Final discussion about the course</li> </ul>



If you would like further Information about ELAMAN,  
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