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## **Adolescent Idiopathic Scoliosis Spine Concept Sobernheim**

**Specialized Course  
in  
Orthotics and Prosthetics**



# **CLINICAL WORKSHOP AGENDA**

**Agenda:****Practical Workshop: Corrective Spinal Bracing - Scoliosis****Content:**

Demonstration and supervised practice (manufacturing / fitting) of spinal orthoses for users with functional or structural idiopathic spine deformities (scoliosis). All relevant topics in fields of anatomy, pathology, biomechanics, materials and components must be covered through lectures, prior to the actual practical workshop.

**Goal:**

Clinical practice under supervision to manufacture and provide corrective spinal orthoses to assigned users:

Emphasis on multidisciplinary team approach, indication, assessment, prescription considerations, fabrication techniques, device fitting and related exercises - taking into consideration professional ethics, patient's right and good human relations

Student/Teacher ratio: 5:1

**Practical Seminar:**

Advanced Orthotics Practice - Trunk - Corrective Spinal Bracing (scoliosis)

**Outcome per student:**

Manufacturing and fitting of a custom made corrective spinal corset in PE  
(type: modified Chêneau)

**Duration:**

05 days @ 08 hours = 40 hours

**Patient population:**

Per group of two (2) students one (1) patient with functional or structural idiopathic scoliosis Spinal Orthotics (Juvenile or adolescent scoliosis, 20° - 50° Cobb)

## Prerequisites:

All subjects related to the content of this practical seminar (i.e. anatomy, pathology, biomechanics and P&O science) are fully dealt with (through lectures and applied multimedia presentations) prior to the practical seminar.

## Course outlines (to avoid loss of time, activities may overlap)

<b>Day 1 - Morning: Demo</b>
<i>Pre-requirement: Multidisciplinary Team;</i>
<i>Recent spine X-ray</i>
Introduction
Patient anamnesis and assessment
X-ray analysis / Angle measurements
Treatment objectives / Alternative therapies
Treatment decision / Prescription criteria
Negative casting/scanning

<b>Day 2 - All day: Demo and Practice</b>
Spinal curvature drawing on negative cast model
Corrective cutting on negative model
Negative cast preparation and filling
3D deformities marking on positive model
Planned corrections drawing on positive model
Modification of positive model, demonstration

<b>Day 3- All day: Demo and Practice</b>
<b>Modification of positive model, trainee practice</b>
Positive model outcome analysis and corrections
Draping of corset, demonstration
Draping of corset, trainee practice

<b>Day 4 - All day: Demo and Practice</b>
<i>If circumstances permit: X-ray control</i>
Corset trimming / preparation for fitting
Fitting procedures, demonstration
Initial fitting and adaptations, trainees practice

<b>Day5 - Morning: Demo and Practice</b>
Finalization of device
Outcome analysis (questions and results), treatment/correction
Patient education/exercises
Structured follow-up/Follow-up planning
Delivery of device
Maintenance/control/Follow-up recording
Discussion (include. alternative technologies)

## CONTACT

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