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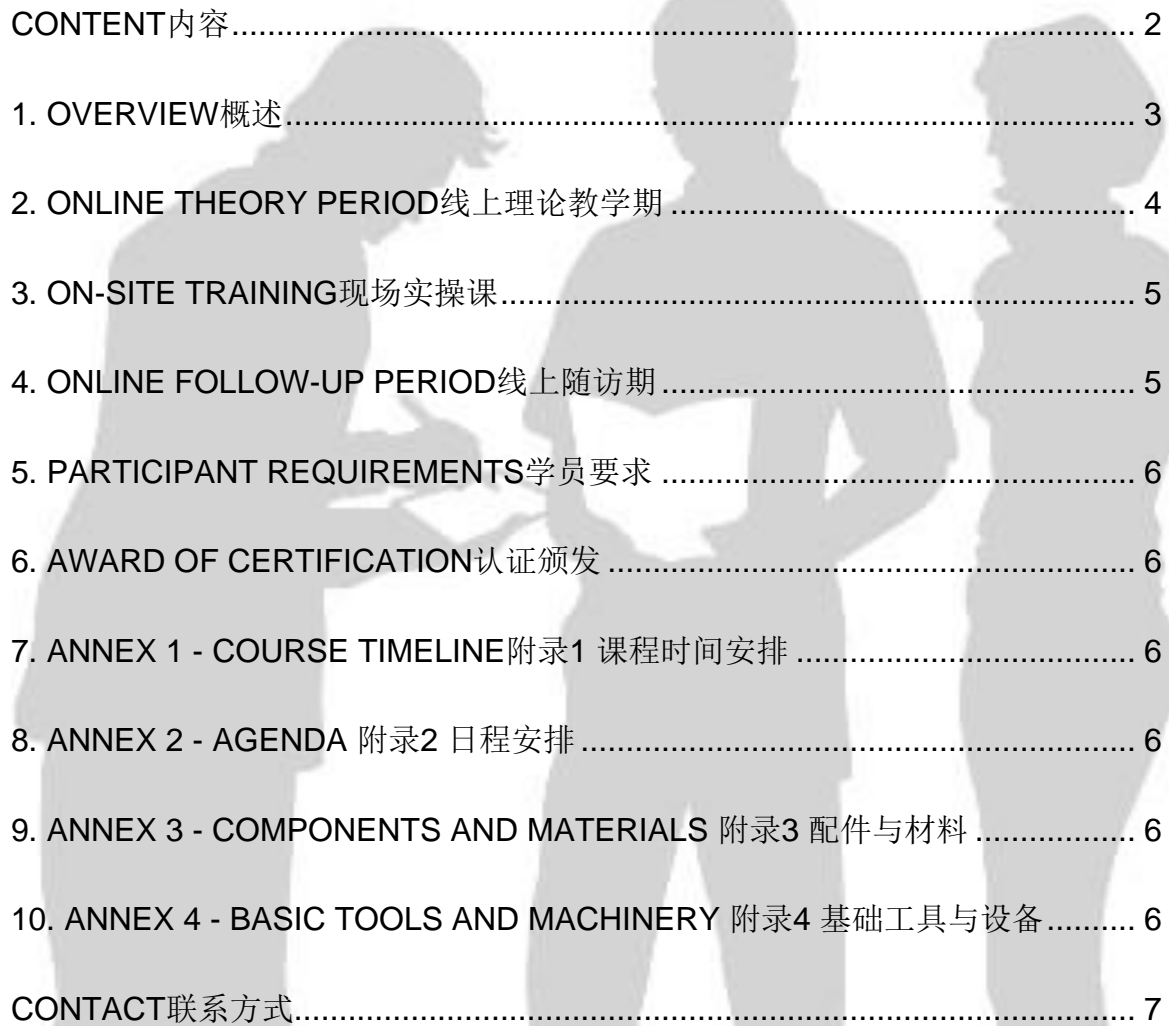
SCHOOL OF REHABILITATION SCIENCES

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Ischial Containment for Transfemoral Prosthesis 大腿假肢坐骨包容技术

**Specialized Course
in
Orthotics and Prosthetics**
假肢矫形器特殊课程

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1. Overview概述

This specialized course for Ischial containment (IC) sockets for transfemoral prosthesis is addressed to prosthetics and orthotics professionals on-the-job, who are interested in this specific transfemoral technique. The aim of this course is to train the participants to understand the indications and biomechanics of an ischial containment socket as well as be able to independently manufacture such sockets:

这门专业课程是针对在职的假肢矫形器从业人员，且对这种特殊的大腿假肢技术感兴趣的人员设立的。本课程的目的是使学员了解坐骨包容接受腔的适应症和生物力学原理，并使其具备独立制作这样的接受腔的能力:

The course consists of 3 parts.

1. Five weeks of online theoretical content
2. Six days on-site training and Final Examination
3. Three months online follow up/Clinical Case presentations

本课程分为三个部分。

1. 五周的在线理论学习
2. 六天的现场培训和期末考试
3. 3个月在线随访/临床病例报告

For the online training, the participants will be enrolled in the Human Study virtual classroom/internet platform to receive the specific theoretical content.

在线培训时，学员将进入Human Study虚拟教室/互联网平台，获取相关的理论学习内容。

The subjects are:

- **Anatomy:** Short revision of the musculoskeletal system (Myology and skeletal system)
- **Biomechanics:** Specific biomechanics comparing quadrangular socket designs and Ischial containment designs.
- **Professional practice:** Practical techniques for assessment, casting, rectification and prosthetic assembly, fitting and trouble shooting

主题包括:

- 解剖学:肌肉骨骼系统(肌学与骨骼系统)的简短回顾
- 生物力学:比较四边形接受腔设计和坐骨包容设计的具体生物力学差异。
- 专业实践:评估、取型、修型、假肢装配、适配、调试等实用技术

The on-site training on average lasts six days, depending on the group size. It takes place at local facilities where participants have to produce one transfemoral prosthesis with ischial containment socket according to the trainer's indications.

根据小组人数，现场培训平均持续6天。在当地的教学中心中进行教学，学员必须根据讲师的指示制作一个带坐骨包容接受腔的大腿假肢。

In the online follow-up period, each participant presents up to three, but at least one clinical case presentation based on the learned technique. This presentation is discussed online with the trainer and fellow participants in the class.

在线随访期间，每个学员最多提交三个，但至少提交一个基于所学技术的临床病例。这个病例分析展示将在网上与讲师和课堂上的其他学员进行讨论。

The maximum number of the on-site training participants depends on the number of trainers.

- Maximum 10 participants for 2 trainers
- Maximum 6 participants for 1 trainer

The course timeline overview is available in Annex 1.

现场培训学员的最大席位数量取决于讲师的数量。

- 2名讲师最多教授10名学员
- 每名讲师最多可训练6名学员

课程时间表概述见附件1。

2. Online theory period 网络理论教学时期

Each participant acquires credentials to be enrolled to the Human Study platform to participate in the online activities. This period lasts for five weeks and covers weekly theoretical content, video material and weekly live meetings via a meeting platform for live lectures and discussions. Each lecture is recorded in order to enable participants access the recorded lectures during the entire course. Each participant has access to the platform tools such as forums, direct messaging and the glossary.

每个学员都会获得登录权限，然后登录到Human Study平台，参与在线活动。为期五周，通过网络平台，学习并参与包括每周的理论内容、视频材料和每周的线上答疑等课程。每堂课都被录像下来，以便学员在整个课程过程中都能收看课程回看。每个学员都可以访问平台工具，如论坛、消息发送和术语表。

The online period allows each participant to organize their own studying time according to the personal and professional needs.

网络理论教学时期允许每个学员根据个人和专业的需要安排自己的学习时间。

The online period is organized as follows:

在线时间安排如下:

1st week:

- Kick-off conference
- Content: Terminology, history of Ischial containment, The human skeleton and Lower limb muscle table.
- Weekly quiz
- Live session

第一周:

- 启动会
- 内容:术语、坐骨包容接受腔历史、人体骨骼及下肢肌肉表。
- 每周测试
- 线上讨论

2nd Week

- Content: Comparative socket biomechanics – Ischial containment VS Quadrilateral
- Weekly quiz
- Live session

第二周

- 内容:比较接受腔生物力学-坐骨包容与四边形
- 每周测试
- 线上讨论

3rd Week

- Content: Measuring, Casting and Model Modification Technique

- Video material theoretical part
- Weekly quiz
- Live session

第三周

- 内容:测量、取型、模型修型技术
- 视频材料理论部分
- 每周测试
- 线上讨论

4th Week

- Content: Manufacturing a Transfemoral prosthesis with IC socket
- Weekly quiz
- Live session

第四周

- 内容: IC坐骨包容大腿假肢的制作
- 每周测试
- 线上讨论

5th week

- Content: Fitting and problem solving
- Weekly quiz
- Live session

第五周

- 内容:适配与调试
- 每周测试
- 线上讨论

2. On-site training 现场培训

Ischial containment workshop: 坐骨包容 工坊课:

The goal of the practical workshop is that each student manufactures a total contact TF prosthesis, without liner. The trainer performs a demo of each working step and the participants reproduce it. Participants perform the whole fabrication process, from the patient anamnesis up to the test fitting and problem solving with a thermoplastic test socket.

工坊课的教学目标是让每个学员制作一个不带内衬的全接触式大腿假肢。讲师将对每个工作步骤进行演示，学员将进行模仿和练习。学员将亲自完成从患者的既往病史采集、到适配调试热塑检验腔的完成制作接待过程。

The workshop is organized as follows:

- The first day includes theory revision, patient anamnesis and casting demonstration.
- The second day includes casting by the participants and Ischial containment socket rectification demonstration
- The third day students rectify the model and thermoform the socket
- The fourth day includes theory on gait deviations and prepare the socket for bench alignment.
- The fifth day includes discussions on component indications (knees and feet) and prosthetic alignment practice
- The sixth day test fitting, problem solving and gait analysis.

工坊课的安排如下:

- 第一天：理论复习、病人病史采集和取型示范。
- 第二天：学员取型和坐骨包容接受腔修型示范
- 第三天：学员修型和热塑成型
- 第四天：步态问题的理论讲解和工作台对线前的接受腔制作。
- 第五天：讨论组件适应症(膝关节和假脚)和假肢对线
- 第六天：检验、适配、调试和步态分析。

The detailed procedure is described in the agenda (Annex 2)

详细过程见日程安排(附件2)

3. Online follow-up period 在线随访期间

This period lasts for 3 months and participants can use this time to contact the trainer to clarify any questions or to discuss any challenging cases they have encountered. In addition, each participant is invited to prepare and to present up to three clinical case presentations according to the new learned techniques.

这段时间将持续3个月，学员可以利用这段时间联系讲师，进行任何问题的答疑或讨论他们遇到的任何具有挑战性的案例。此外，要求每个学员根据所学的新技术准备和展示最多三个临床病例。

These case presentations, are delivered in PowerPoint format where the participant is required to present his/her treatment. This takes place in a live session (WebEx or Zoom), where discussions are held with the trainer and the rest of participants. The aim is to analyze the procedures and results, acquiring a valuable feedback from the group with the trainer as moderator.

这些案例分析展示是用PowerPoint格式进行的，学员需要展示他/她的治疗情况。这将在一个实时会话(WebEx或Zoom)中进行，在这个线上会议中，学员将与讲师和其他学员进行讨论。目的是分析过程和结果，获得有价值的反馈，讲师将作为该线上会议的主持人。

The presentation of at least one Case Presentation is mandatory in order to receive the Human Study course certificate.

为了获得Human Study课程证书，必须提交至少一个案例。

3. Participant requirements 学员的要求

This course is aimed for P&O professionals on-the-job who seek to improve their skills.

Training candidate requirements:

本课程针对在职的P&O专业人士，旨在提高他们的技能。

参训学员要求:

- At least 1-year of practical experience in the field of Prosthetics & Orthotics (as a technician, orthotist, prosthetist, or assistant)
- Curriculum Vitae with photo
- Work portfolio describing 2 clinical TF cases
- Computer with internet access
- Good English level: professional working proficiency
- 至少1年的假肢矫形从业经验(作为技师, 矫形器师, 假肢师, 或助理)
- 个人简历附照片
- 日常工作介绍: 包含2个临床大腿假肢病例
- 可上网的电脑
- 良好的英语水平: 专业的工作能力

4. Award of Certification 课程证书

Each participant is required to complete a theoretical examination (online based) and to present at least one case presentation in the frame of the course. Upon successful theoretical examination and completed case presentation, the participant will be awarded a **Certificate of Achievement** by Human Study e.V.

每个学员都必须完成一项理论考试(线上), 并在课程框架要求下提交至少一个案例。成功通过理论考试并完成案例分析展示后, 学员将获得由Human Study e.V颁发的课程证书。

5. Annex 1 - Course timeline 附件1 - 课程时间表

This excel document is a timeline overview of all the activities during the course. The dates are to be determined upon mutual agreement.

这个excel文档是课程中所有活动的时间概览。日期将由双方协议决定。

6. Annex 2 - Agenda 附件2 - 日程安排

The document provides details of the workshop activities. In addition, the document contains needed patients' characteristics and when they need to be present.

该文件提供了工坊课活动的详细情况。此外, 该文件还包含所需患者的筛选标准以及他们何时需要到场。

4. Annex 3 - Components and materials 附件3 -配件和材料

This excel document is a calculator for the needed materials of the Basic Lower Limb Orthotics workshop.

该excel文档是一个基础的下肢矫形车间所需材料的配备要求。

5. Annex 4 - Basic tools and Machinery 附件4 -基本工具和设备

The document contains a short list of tools that are necessary to be available during the workshop. These are needed personal and workshop tools.

该文档包含一个简短的工具列表，这些工具在工坊课期间是必需的。这些都是需要准备的个人和车间工具。

CONTACT 联系方式

For any enquiries contact us via email on: 如有任何疑问, 请电邮至



scope@human-study.org

Human Study e.V.
Rieterstrasse 29
90419 Nürnberg, Germany

info@human-study.org
www.human-study.org

