

Development Info Day 2023 IBU Academy

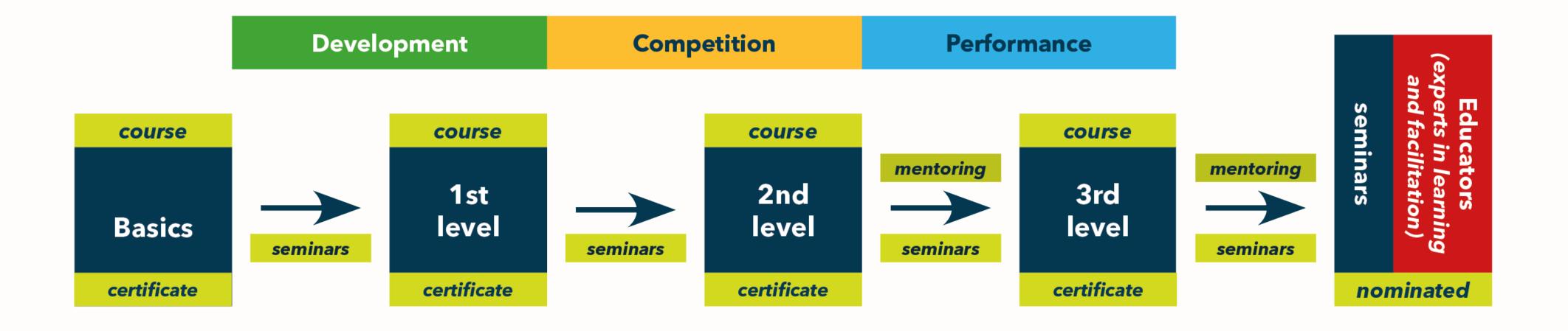
22 March 2023



Coach Education

- ✓ 4 Levels
- ✓ 6 to 18-days in person learning
- ✓ E-learning tasks
- ✓ 10-20 coaches each course
- ✓ Target group orientated

IBU Academy Model of Coach Education Pathway



From general principle modules to advanced modules based on professional development coach needs



Coach Education

	Basic Course		1st Level Course		2nd Level Course		3rd Level Course	
Target Group	 Coaches with basic knowledge Former Athletes PE Teachers Entry course for C, D, E nations 		 Athletes (min. 3 years senior level) Coaches (min. 3 years experience) Basic Course Certificate or equivalent 		 University Education or similar Junior National Coach or higher First Level Course Certificate or equivalent 		 Head Coaches (international) Sports University or higher Second Level Course Certificate or equivalent 	
Content	Skiing Technique Coaches Skills Training Science Motor Skills	Shooting Physiology Business of Sport Equipment	Skiing Technique Coaches Skills Training Science Motor Skills Biathlon Integrity Recovery/Prevent	Shooting Physiology Business of Sport Equipment Nutrition Psychology Sustainability	Skiing Technique Coaches Skills Training Science Motor Skills Biathlon Integrity Recovery/Prevent	Shooting Physiology Business of Sport Equipment Nutrition Psychology	Skiing Technique Coaches Skills Training Science Motor Skills Recovery/Prevent	Shooting Physiology Equipment Nutrition Psychology
Duration	Total: 90 hours Theory: 45 hours Practice: 45 hours		Total: 200 hours Theory: 110 hours Practice: 90 hours		Total: 180 hours Theory: 90 hours Practice: 30 hours Mentorship: 30 hours		Total: 140 hours Theory: 110 hours Mentorship: 30 hours	
Outcomes	 Basic biathlon knowledge in theory and practice Conducting of basic biathlon coaching sessions Safe management of kids and youth groups 		 Planning, delivery, review, and evaluation of training sessions Construction of training plans for different kinds of sessions Safe management of group activities in youth and junior level 		 Construction and delivery of annual training & competition plans Management of groups up to senior level In-depth knowledge of selected specialist areas 		 Long term development planning In-depth knowledge of several specialist areas Development of others coaches Broad, current, and integrated knowledge Leadership competence 	
Start of the Pilot Courses	April 2022		May 2022		September 2023		2024	
Courses	1 x 6 days (April)		3 x 6 days (May, October, March)		3 x 5 days (September, April, June)		TBD	



Coach Education 2023 & 2024

Basic Course

- ✓ Application deadline: 28 February
- √ 42 Applicants
- ✓ 20 Coaches
- ✓ Course: 15 20 April
- ✓ Place: Salzburg/Ruhpolding

Second Level Course

- ✓ Application deadline: 30 April
- ✓ 20 Coaches
- ✓ Courses: 3 Weeks + Mentoring
 - ✓ 23-27 September in Oberhof
 - ✓ 7-11 April in Lillehammer
 - ✓ 29 June 3 July in Antholz

First Level Course

- ✓ Application deadline: 31 March
- ✓ 20 Coaches
- ✓ Courses: 3 Weeks
 - ✓ 6-11 May in Hochfilzen
 - ✓ 7-12 October in Östersund
 - ✓ End of March 2024: TBC

Third Level Course: Plan

- ✓ Application: Spring 2024
- √ 10 Coaches
- ✓ Courses: 3 x 4 days + Mentoring
 - ✓ Summer 2024
 - ✓ Autumn 2024
 - ✓ Spring 2025



Final Week of First Level Course in Jakuszyce: 26-31 March 2023

Time	Saturday 25.3.	Sunday 26.3.	Monday 27.3.	Tuesday 28.3.	Wednesday 29.3.	Thursday 30.3.	Friday 31.3.	Saturday 1.4.
08:00 08:30 09:00 09:30		L1.16: Training planning, evalutaion, documentation:	L1.19: Recovery and Prevention - Kornelius Kraus	L1.17 Diagnostics and talent identification: Ahrens/Brevik	L1.21: Psychological aspects of training and	L1.18: Nutrition, hydration and	L1.22: New IT	
10:00 10:30 11:00		Marko Laaksonen / Matthias Ahrens	L1.25: Sustainability in	P12: Ski Technique Analyses: Video	competition: Amelie Heinrich	regeneration: Judith Haudum	technologies in sport	
11:30 12:00 12:30	- Arrival Day	Lunch	Biathlon: Daniel Cade Lunch	Lunch	Lunch	Lunch	Lunch	
13:00 13:30 14:00 14:30		L1.24 Ethics and welfare in biathlon: Gatterer/Rothauer BIU	P6: Shooting drills and exercises	P12: Ski Technique Analyses: Video	L1.18: Nutrition, hydration and regeneration: Judith Haudum	P14d: Practial coaching: assignments with feedback		Departure
15:00 15:30 16:00 16:30		P13: Coaches methodology: Building up a session	P14a: Practial coaching: assignments with feedback	P14b: Practial coaching: assignments with feedback	P14c: Practial coaching: assignments with feedback	P14e: Practial coaching: assignments with feedback	Social Activity with Dinner	
17:00 17:30 18:00 18:30	In-class lectures In-class online lectures Practice Lunch	Tomasz Bernat: Team protocol, grinding, unified waxing, flour ban		Evaluation of C	oaching P 14			



E-Learning Platform: Learning Suite (LS)

- ✓ Basic and First Level Course: 580 pages, regularly updated
- √ Second and Third Level Courses: Currently filled (content review)

Public Content

- ✓ Access for Biathlon Family: List to NFs (please complete!)
- ✓ Content for coaches, technicians, physicians, staff
- ✓ Content from seminars, webinars, lectures, etc.
- ✓ Certificated education: safeguarding, rules, etc.
- ✓ Results from the Research Grant Programme, Lit. Database
- ✓ Notification and Calendar (Events, Webinars, etc.)



Link: Learning Suite



Seminars/Webinars for 2023 & 2024

- ✓ 25 May 2023: Coach Webinar, Topic: Shooting
- √31 May 2023: Safeguarding Webinar (BIU)
- ✓ 14/15 June 2023: Physicians Webinar
- √ 6 July 2023: Athletes Webinar, Topic: Culture of Biathlon Training
- √6/7 September 2023: Coach Webinar, Topic: Recovery and Prevention
- √19-21 September 2023: Technicians Seminar, Topic: Flour Ban (in Salzburg-Rif)

✓ Plans 2024: Coach Webinar Motor Skills Training (Strength & Endurance), Coach Webinar Skiing Technique, Kids and Youth Recruitment - YOUR IDEAS?



Research Grant Programme

2021/22: 4 projects supported

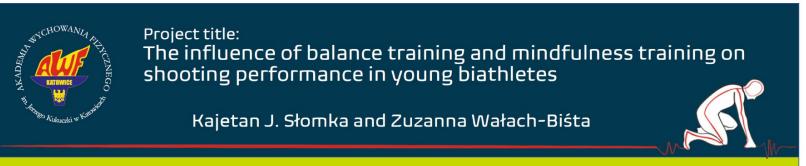
- ✓ Montana State University (USA)
- ✓ University of Jyväskylä (FIN)
- ✓ Research Institute of Olympic Sports (FIN)
- ✓ Academy of Physical Education Katowice (POL)

2022/23: 5 projects supported

- ✓ AECC University College (GBR)
- ✓ Nord University (NOR)
- ✓ Norwegian School of Sport Science (NOR)
- ✓ Mid Sweden University (SWE)
- ✓ Federal Institute of Sport Magglingen (SUI)

About RSGP

High quality topics in different fields, to be shared with NFs (Website, Learning Suite, Journal of Biathlon Coaching), one year for candidates to deliver the results, please encourage researchers to apply (via IBU-Scope), deadline: each year on 31 March!



Introduction

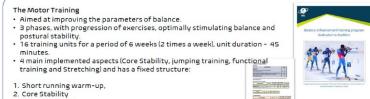
The project focuses on the evaluation of effectiveness of two alternative approaches to performance enhancement of biathletes. First is based on motor competence and is focused on postural balance and the second approach focuses on psychological competency and is built on the concept of mindfulness. Recent research suggests that in resting conditions and after physical exercise, rifle sway during aiming at the target in a standing shooting position seems to be coordinated with the postural sway of the biathlete's body. Thus, an increase in postural sway contributes to a greater sway and lesser stability of the rifle. With respect to the second approach, the core of mindfulness is a way of paying attention that entails intentionally being aware of the present moment and accepting things just as they are without judgment. Mindfulness-based approaches in sport, exercise, and performance psychology is a fast developing area of sport psychology. There are many athletes (and coaches) who know that mental factors such as concentrating, relaxing, and letting go of thoughts and feelings can aid performance, but have no idea how to actually do these things under the pressures of training and competition. Moreover, recent findings indicated that mindfulness facets were positively associated with shooting performance, with higher levels of Awareness, Refocusing, and Awareness being related to better shooting performance in competitions. The 6-week balance training program and a 6-week Mindfulness Sports Performance Enhancement (MSPE) program was implemented in parallel among youth biathlon athletes in order to elicit improvements in their performance and verify the effectiveness of these programs.

Aim

The aim of the project was to implement two types of training in biathlon athletes and verify their potential to improve shooting effectiveness.

The first of the training programs focused on motor preparation and concerned the balance of the athlete's body. The second training program focused on mental preparation, specifically mindfulness.

Methods



Jumping exercises
 Functional training with equipment,
 Stretching exercises.

Mindful Sports Performance Enhancement training - (MSPE, Kaufman et al., 2018)

• A six-session group mindfulness program for athletes, rooted in a traditio of mindfulness-based stress reduction (MBSR, Kabat-Zinn, 1990) and mindfulness-based cognitive therapy (MBCT, Segal, Williams, & Teasdale,

2002).
 Training session: 60-90 minutes with elements of education, empirical, debatable and home practice.

Exercises: body scanning, mindful breathing, sitting meditation, mindful yoga and walking meditation boosting mindful awareness and acceptance.
 Learned sequentially: from sedentary to mindfulness in motion, ending with a sport-specific exercise - transition of mindfulness techniques

directly to basic skills in their sport.

Recommended daily home practice and discussion in which athletes.
Access to recordings of all mindfulness exercises of daily home practice was provided through the online platform



Measurement methods
1. Force plate (AMTI BP60090
2. SCATT System
3. Video Camera
4. Ski Ergometer (SkiErg)
5. Video Tracker



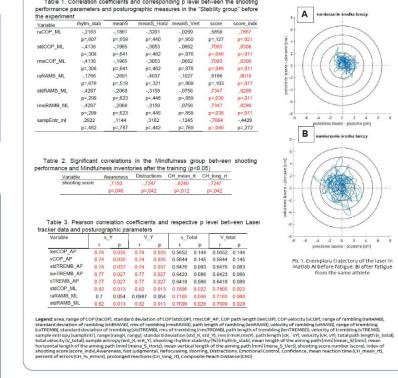
Methods continued

Measurements (before and after the training):

1. Force plate data from quiet standing and in shooting position with a rifle in anterio-posterior (AP

- Force plate data from quiet standing and in shooting position with a rifle in anterio-posterior (and mediolateral (ML) direction,
- Scatt training system variables,
- Mindfulness test and inventories (psychological tests)
- 5. CUODE test (see automore)
- Y-Balance test Upper and Lower quarter.

Results



Conclusions

- The body balance and the level of mindfulness can significantly contribute to the shooting accuracy.
- The training elicited significant changes of the posturographic parameters but not in the Mindfulness level estimated with the implemented tests.
- The individual statements of the participants were positive, especially with respect to the MSPE training. They reported that they were able to cope with the stress and to refocus much better with the use of the methods they were presented within the course of the project.
- The developed methodology of tracking of the aiming trajectory showed an
 interesting tendency in the results that suggest the training has led to better
 control of the rifle during aiming and resulted in a more focused tracing. This
 should be further explored in the future experiments.

Contact

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IBU RESEARCH GRANT PROGRAMME



University Cooperations

Goals of these Partnerships

- ✓ Promote biathlon knowledge and share with NFs
- ✓ Strengthen education & research: Access to experts and projects
- ✓ Applications for funding
- ✓ Options for biathletes in dual career
- ✓ Support projects in technology, equipment, methodology, etc.



Proposed Partnerships of Universities with a strong winter sport background:

- ✓ Mid Sweden University (SWE)
- ✓ Norwegian School of Sport Science (NOR)
- ✓ Academy of Physical Education Katowice (POL)
- ✓ University of Leipzig/Cologne (GER)
- ✓ University of Salzburg (AUT)
- ✓ Montana State University (USA)
- ✓ University of Jyväskylä (FIN)



DUAL CAREER PROGRAMME

IBU ACADEMY STRATEGY

"Develop the possibility for talented, professional, and elite athletes to build an educational or job path simultaneously with a sports career and develop leaders who will serve all biathlon sectors in future"

Timeline

- ✓ June 2022: Policy approved by EB
- ✓ February 2023: Dual Career Strategy approved by EB
- ✓ 2023/2024: Dual Career Action Plan
- ✓ Currently running: Athletes recruitment after sports career & mentoring program for female athletes & athletes webinars



Make Partnerships, IBU as a Link, Encourage NFs, Build Platform, Show Best Practice, Erasmus + Sport

MENTORSHIP PROGRAMME 2023

GENDER EQUALITY AND DUAL CAREER



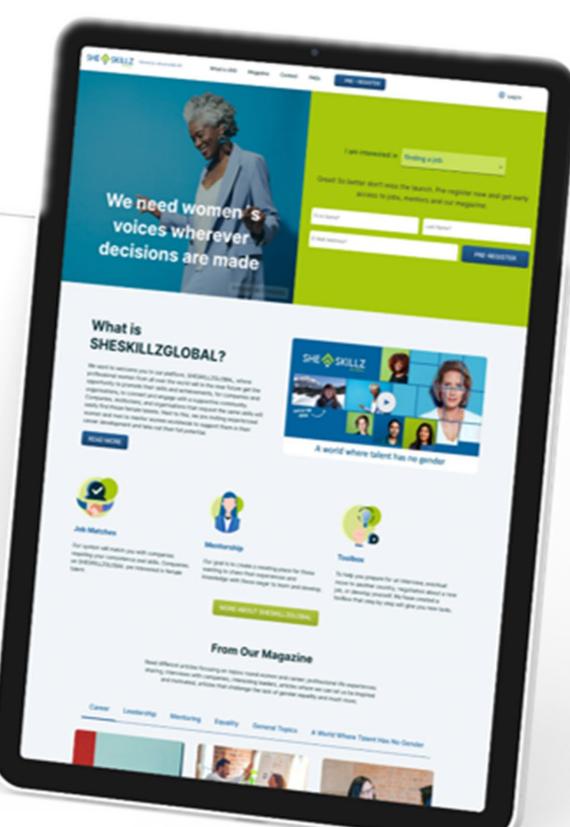
Application call deadline 31 May 2023

TARGET GROUP: FORMER FEMALE ATHLETES

- ✓ World Cup and IBU Cup level athlete
- ✓ Ended her sports career a maximum of 5 seasons ago (after the Olympic Games PyeongChang 2018)
- ✓ Started a new role in the NF or ready for the next step in the organisation
- ✓ The mentee and National Federation see a role for her in the organisation.
- ✓ The role needs to be described in the application
- ✓ Be seen as a leader today or a near future leader
- ✓ Good English!
- ✓ Application via IBU Scope by NFs

PROGRAMME INCLUDES

- ✓ Individual mentoring done by IBU mentor and SheSkillzGlobal mentor
- ✓ Group tasks
- ✓ Webinars and workshops focused on leadership skills development
- ✓ In-person meeting Q2 2024





Questions?



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