

23 April 2020 - India
Zoom conference on
Psychology in archery
Welcome!





Concept 1: "Complete" Coach Coaching Specialities



Technical Coach

Equipment Coach

Physical Coach



Mental Coach
Competition Coach
Team Leader









Concept 2: Coach-partner WA concept:

To HELP/ASSIST the archers in their personal development



Through: observation, analysis, feedback, exchange, prioritization, plan, individualization/customization, supervision, measurement, adaptation...



Other possible concepts

Educate the archers to implement a "predetermined way" of shooting and training





Training Concept Choice:

According to the directives of the organization / The coach "applies" or adapts, the archers execute

From the Coach's concept(s)/ The archers execute

Involving the archers to the choices / The archers and the coach collaborate

Suitability / Pending their respective psychological profile, any of the above principle can be useful and chosen





Concept 3: Experience based

Elite

Expected Athlete's path



- Athlete to go higher
- In a straighter way



Novice



Achieved Coach's path

Experience used in training, but could have to operate at an inexperimented level



Phylosophy – Conceptual work & Goals



Concepts 4: Coach's role per level

Level 1: Educate the proper shot execution to the muscular memory of the novice archer

Level 2: Assist the competitor archer to identify how to shoot in motor memory (mind-set, behavior....)

Level 3: Assist the elite archer to reach and maintain the proper mind-set allowing to shoot in motor memory in various situations

In parallel: Several developments are required



Phylosophy - Conceptual work & Goals

	1	
1		
	3.6	
	(
		١

		My Sequence	
lame :			Date :///
Sequences		From stepping the shooting line until leaving	
Movements			
Visual			
Breathing	3/4 1/2 1/4 Empty Lungs		
Perceptive			
Attention			
Revised on	February 1, 20	002	



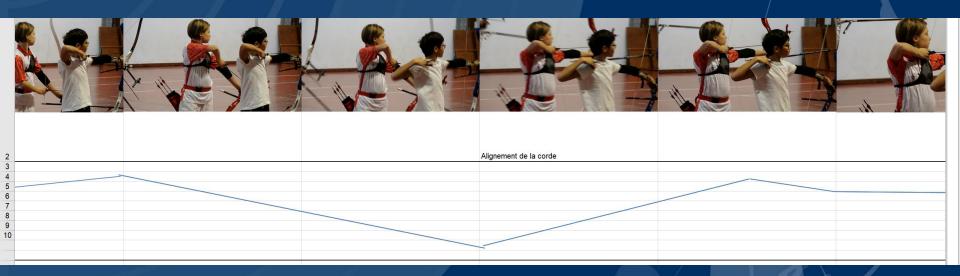
Target

Target

Phylosophy - Conceptual work & Goals



Sequences or script identification / record

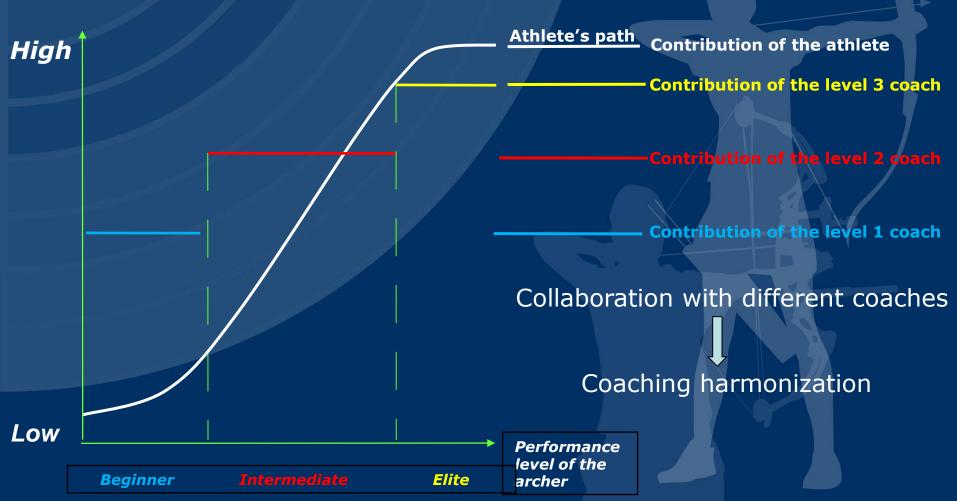








Concept 5: Coaching Cohesion Help the archers in their own development





Phylosophy - Coach' skills



Concept 5: Coaching Cohesion

A physical injury is usually curable with rest, medication, physiotherapy sessions, an operation

Do you think there is something similar with a Mental injury?

If not, cohesion among coaches could reduce the risk of injury, mental ones as well.



Phylosophy – Coach' skills



Concept 5: Coaching Cohesion



Awareness of other coaching levels

To coach well at entry level it is necessary to know what a coach is supposed to do at level 2 and at level 3.



Phylosophy - Coach' skills



Qualities of the Coach

Availability

Dedication

Sincerity - Objective - Honesty - Integrity

Group Attitude

Respectful - Fair - Responsible

Observation - Analyse

Communication



Phylosophy - Coach' skills



Communicating

What you want to say

What you can say

What you really say

What the student hears

When the student listens carefully

What the student understands

What the student keeps in mind

What the student can repeat

What the student can practically use

Loss of information

To coach by talk does not develop Know-how's



Phylosophy – Deserving Environment



Concept 6: Not up to the coach ONLY!

Also helps:

- Access to archery equipment & facilities
- Competitions network
- Good Administration of the National Archery Organization

- Role-players recognition
- A comprehensive and fair **decision process**
- Good communication at all levels
- Transparency of all activities
- Good methods of administering the budget

• ...





1. Relaxation

Level of "activation" (stress/relaxation)





Team / with opponent: Ball games, raquette games....

Eplosive / fighting...: Jumping, Weightlifting, fights...

3





1. Relaxation

Different methods are available:

- Part by part with heaviness / lightness feeling
- Tense / relaxed (PRM)
- Emphasize the exhaling
- Eyes closed
- Internal singing / Musique
- Self visualization in cosy place
- Humour / de-dramatization (from Coach)





1. Relaxation / Effortless & in Control

1st learning in discipline using a device = Relax on it

Master looks simple, "easy", Effortless and in Control. They do not struggle

Coach should:

- "Purify" the technique = avoid/remove any unnecessary component. Simple = easier to control and repeat
- Teach the difference between muscular contraction and nervous tension. For better feeling + Energy saver

. . .





2. Concentration & Attention

Concentration = to be here & now on the task at hand

Attention:

Niedeffer, Schmid & Peper: Orientation & Diffusion



This Photo by Unknown Author is licensed under CC BY-SA-NC

Soft & hard eyes





2. Concentration & Attention

Over aiming is a trap in archery!

Because archer uses too much an external-narrow attention and/or too early

Coach should help the archer to increase the use of other type(s) of attention; particularly a more Internal orientation.

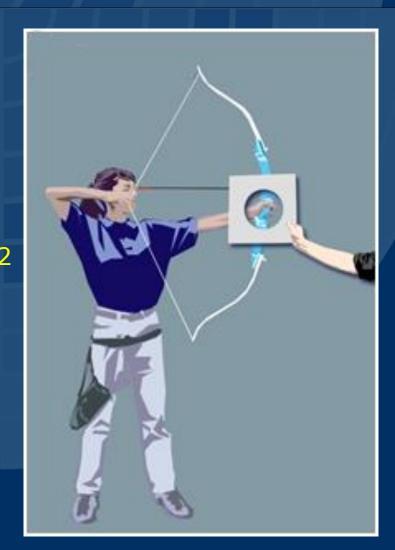
For instance by suggesting to adopt soft eyes, and/or to harden the eye(s) a little later





2. Concentration & Attention

Double click on the illustration and go to slide 2 of this Standard Teaching Process





1.2.2 Standard Teaching Process in Archery

Pascal COLMAIRE - World Archery Development & Education Director





3. Mental Activity

High when:

- Switching among different attention types
- Particularly with external type
- Moving the eyes a lot (looking at many things)

Mental activity is low when:

- Staying in the same attention type
- Particularly with internal type (like breathing)
- Keeping the eyes stable (on the same spot), like in meditation. Exercise on next slide





Low Mental Activity

Eyes are mind window. Link with Neuro-linguistic programming (NLP)

From a starting point to be set by Archer-coach – For instance behind the waiting line.

ALWAYS keeping the eyes <u>motionless</u> in the centre of their socket, archer walk to the shooting line and complete the entire shooting sequence

To transfer the gaze from one place to another (ex: from quiver to arrow-rest), move the head and eyes as a whole.

The coach constantly checks that the eyes are not moving.

No visual zooming and/or traveling at full draw

Quite eyes = Quite mind





4. Positive Self-Talk

If I shoot only a 9, I could lose the match

Outcome or consequence

Pessimist view

Process or origin

Optimist view

By behaving and shooting well, good thing should happen





5. Visualisation

Two methods:

- See your face as on a screen
- •Just visualize what you usually see: hands, equipment, target....
 The 2nd one is more popular among archers, but both are efficient.



Speed of visualization:

- Slow for technique development (analytic details)
- Fast for integration in the sequence (global essential)
- At speed of execution during the competitive period





5. Visualisation

Speed of visualization in competition period

	1	Flerha	1	serie
	Real	Visuolización	Real	Visualiza da
5	10	11.5	44	46
D	10	12	39	47.5
R	8	9.5	28.5	33.5
1	12	10.5	30	53
<u></u>	1"0	100	-ort	10%
	1 07	difference	Ex. Por 30" <	10

•1st: Visualize 1 shot within +/- 1.5 sec of difference (novice)

•2^{nd:} Visualize 1 end within +/- 10% difference (intermediate)

•3rd: Visualize 1 end within +/- 5% difference (elite)





6. Goal setting

Goals should be: SMART or SMARTER

- Specific,
- Measurable,
- Achievable,
- Realistic,
- > Timed,
- > Exciting,
- > Recorded.





6. Goal setting

There are basically three types of goals:

- >Process goals
- ▶Performance goals
- ➤Outcome goals





Goal setting

Process goals:

These are the goals that mark the path of where the athlete would like to end up.

These are good goals and give the athlete a path to follow in their training programme.

Often set in terms of skill and technique. This could then be broken down into areas such as Mental Skills, Physical Skills, Technique and Fitness etc. "By doing (a skill, or....) like (form, or level...) at (time, date...) I will perform much better"





Goal setting

Performance goals:

These are the goals that are made when an athlete wants to achieve a particular performance level.

These are usually short term goals with no training programme, unless process goals are included.





Goal setting

Performance goals: Self-contract challenge

<u>Before</u> each end, archer writes down the minimum score/goal = contract. After the end is shot, if this contract is :

- reached or exceeded, the entered score = the contract (no more!)
- not reached, the entered score = 0

Contract	Real score	Cumulated score
54	56	54
55	53	O
54	57	54
55	55	55
56	57	56
56	54	0
As EXEMPLE	Total	199 points

Benefits?





Goal setting

Outcome goals:

These are usually made when an athlete wants to beat another competitor or win a competition.

This is not a good goal as other athletes are there to do their best, and you cannot control your competitors to win.

An outcome goal is only useful when the athlete aims to perform to a certain level, the problem is the athlete could be setting themselves up to fail.





Goal setting

Outcome goals: Up-&-down event

After a short ranking round, or randomly, matches are organised. If after a ranking round, set the match as below:

1 st	2 nd	3 rd	4 th	5 th	6th	/	2 nd last	Last

Have a match, even over 1 end. 1 arrow shoot-off in case of tie. Winner moves 1 target "up", looser 1 target "down". See below

1 won 2 lost 3 lost 4 won 5 won 6 lost .../... 21 won L lost

Have another match, and so on...

1 won 4 won 2 lost 5 won 3 won 2L lost .../... 6 won L lost





7. Stress Management

What it is?

Emotional reaction due to a relation with a possible future.

How to avoid it?

- Familiarisation with stressful situations
 - → Anticipation / Rehearsals
- Familiarisation to the stress symptoms
 - Practice with challenges
- Be here and now on the task at hand
 - → Mental discipline & sequence (see STP), Breathing focus ... to be on the immediate task at hand.





7. Familiarisation to stressful situations

Example: First scoring arrows of a tournament

Experiment a warm-up plan: until it works most often, and then stick at it.

Warm-up plan example:

- Physical Warm-up (Routine to be experimented)
- 1st end: Pleasure. Fluidity. Shooting sequence. Rough sighting
- 2nd end: Feeling. Efforts & routine adjustment. Sigh refinement
- 3rd end: Shooting rhythm. Breathing and eye controls.
- 4th end: Projection in the coming event. Attention distribution





Stress symptoms

Ho does it show up? Through various symptoms:

Yawn Muddled up vision Humming Tension in the neck Need to go to the toilet Feel nervous Thirsty Nausea Hands / trembling legs Elevated heart beats

Fear / insecurity Memory loss Strength loss Wet hands Stomach pain Heat Mental confusion Dizziness / intoxication Belly pain Breast pain

...





7. List of Stress symptoms & impact

		LEVEL			EFFECT	
Symptoms	High	Medium	Low	Negative	None	Positive
Weak legs						
High heart beats						
Sweat hands						
Vertigo or Dizzy						
Need bathroom						
Warm						





7. Familiarisation to tress symptoms

How to do with it?

Practice familiarizing in the disruptive symptoms:

Shaking legs — Do squats then Shoot

High heart beats — To run then Shoot

Strength loss -> Strengthening then Shoot

Wet hands

Vaseline on hands then Shoot

Turn rapidly on spot then Shoot

...

Dizziness

How to reduce it?

Low level of mental activity
Use relaxation techniques
Change the attention type & subject
Humour

...





A critical psychological step of the shooting process

Many things to do in a brief moment when string reach the face:

Anchoring. Sight centring. Aligning the string / scope-peep. Hold the breath. Feel/check good dispositions to pursuit or not. Expansion start. Aiming start. Option: visually check point/clicker. Maybe more...

Without an organization plan to set all those things, risk of:

- Different mindset during the main action
- Mental confusion under stress like shoot-of
- Aiming more & more early (external-narrow attention) leading to target panic

The coach should help to build a customized and efficient plan





Importance of a first good shot

Rule evolution \Rightarrow Short event, like a match, even a shoot-of Psychological influence \Rightarrow Have the lead...

Suggestions:

Require archers to always be behind the waiting line before each end, so that they develop the same preparation routine as in competition

Score 36 first arrows. Moving back behind the waiting line after each shot

. . .





Importance of a good start

At least 2 formats of shooting session

Development period:

1st: Improve a shooting skill

2nd: Adapt it to aiming

3rd: Test it under challenge

Performance period:

1st: Simulate preparation (warm-up's)

2nd: Strive to perform

3rd: Work what could be improved



Psychology - Coach' skills



To coach in tournament

Case of study:

An experimented professional archer started well the tournament. Suddenly his/her score drop down and you notice a technical change. What do you do?

Suggestions:

With experimented / professional archers, if the technique change, it is often NOT a technical reason.

Unless an equipment or physical issue, there is often a mental origin

Because we cannot be sure 100% of the reason, do not provide THE solution, particularly a technical one...

Because athlete must learn to make choice on how to shoot capital arrow, to adapt... force self-assessment with "I noticed WHY?"

Process to be completed during the conference



Psychology



Ideal Performance State (IPS)

IPS identification

Help archer to describe their state when you shoot well. Observe and take notes as well.

IPS introduction

It can come by chance, but can also be introduced.

Practice various preparations to performance – several times each – until identifying one that works often



Thank you... Ready to answer your questions!

