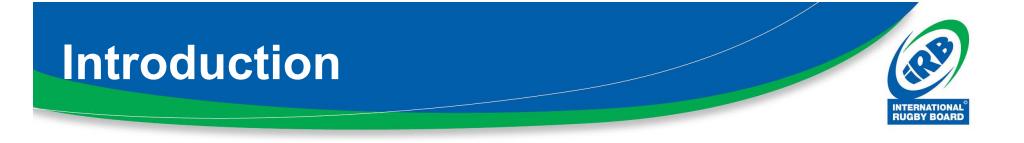


## IRB Strength and Conditioning Level 1 Course



Location – ??????

Presenters - ?????



This course is designed to provide beginner Strength and Conditioning coaches with a basic knowledge and understanding and a foundation of practical skills. This in turn will facilitate coaches to prepare players more thoroughly to play Rugby Union. This course links directly to the physical conditioning element of the IRB 'Rugby Ready' programme.

The IRB Strength and Conditioning pathway has been designed by the IRB in conjunction with Setanta College. The pathway is as follows:

- " (First Stage) . Rugby Ready
- " (Second Stage) . IRB Strength and Conditioning Level 1
- " (Third Stage) . IRB Strength and Conditioning Level 2

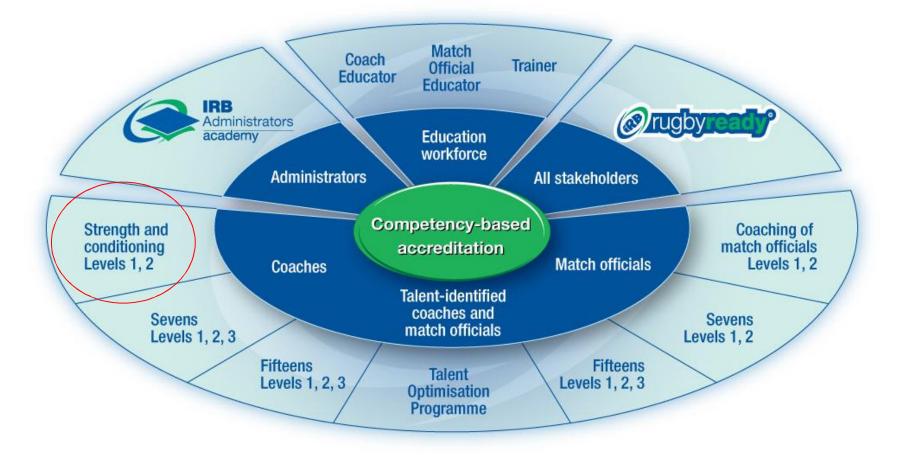


## **IRB Level 1 Strength & Conditioning**

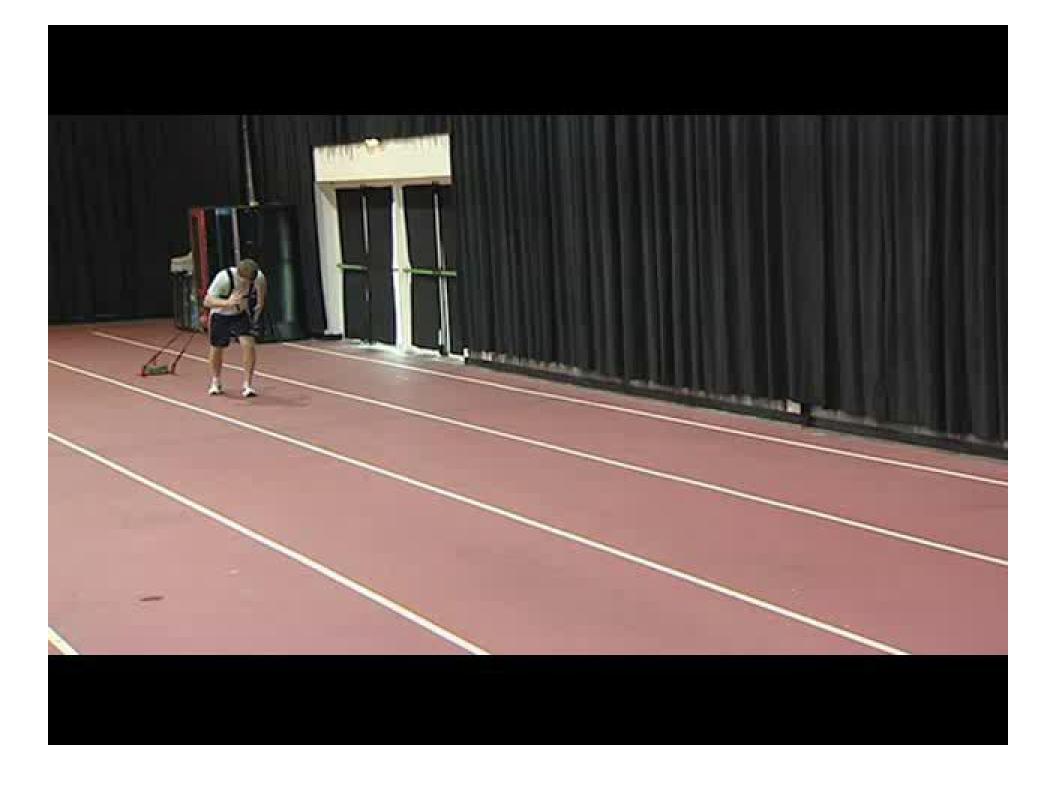
- www.irbsandc.com
- 6 Modules
- ″ MCQoş
- Optional One day workshop



## **IRB Training portfolio**



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## **Course Content**

Within its six modules, the Level 1 course will address eight key topics:

- <sup>"</sup> Long Term Player Development Pathway
- *Functional screening*
- Anatomical Adaptation
- <sup>"</sup> Demands of the game
- Principles of training
- <sup>"</sup> Speed and intermittent sprint endurance
- <sup>"</sup> Periodisation
- <sup>″</sup> Recovery



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### **Course Content**

- Module 1 The coach will be able to describe the different stages of the Long Term Player Development Pathway.
- **Module 2** The coach will be able to administer a basic functional screen.
- Module 3 The coach will be able to implement an anatomical adaptation programme.
- Module 4 The coach will have an understanding of the demands of the game and will be able to describe the principles of training. In addition, the coach will become familiar with warm-up and cool-down activities.
- Module 5 The coach will have a knowledge and appreciation of the different methods of developing speed acceleration and game-related conditioning. The coach will also be able to implement speed, multi-sprint/activity and conditioned games to advance the match fitness of players.
- Module 6 The coach will have an understanding of programme planning and periodisation. The coach will also develop an understanding of the importance of recovery and be able to implement key elements of recovery, such as unloading and tapering, within the programme.

## Timetable



Торіс	Time
Introduction	9.15am
Pathway / Screening	9.30am
Break	11.00am
<b>Demands / Anatomical Adaptation</b>	11.30am
Lunch	1.00pm
Conditioning	2.00pm
Planning	3.30pm
Break	4.15pm
Competence Assessment	4.30pm
Wrap Up	5.30pm

## L.T.P.D. Pathway

#### Content:

- <sup>7</sup> The Long Term Player Development Pathway
- <sup>"</sup> Introduction
- " Preparing the player to perform
- <sup>"</sup> The components of fitness
- <sup>"</sup> LTPD Pathway and key principles
- <sup>"</sup>Summary

#### Outcomes

The coach will be able to describe the different stages of the Long Term Player Development Pathway.

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## LTPD Considerations





## IRB LTPD model



Stage: FUN Age guide: 6-12 Player PLAYS Coach GUIDES Content: Learning to move, basic Rugby skills

Stage: DEVELOPMENT Age guide: 12-16 Player EXPLORES Coach TEACHES Content: Learning the Game

Stage: PARTICIPATION Age guide: 15-18 Player FOCUSES Coach CHALLENGES Content: Playing the Game, developing the player







Stage: PREPARATION Age guide: 17-21 Player SPECIALISES Coach FACILITATES Content: Reaching full potential

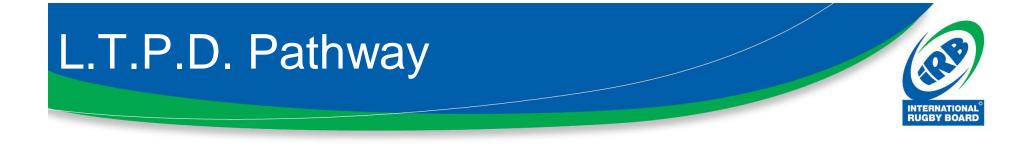
Stage: PERFORMANCE Age guide: 20 and over Player INNOVATES Coach EMPOWERS Content: Consistency of performance









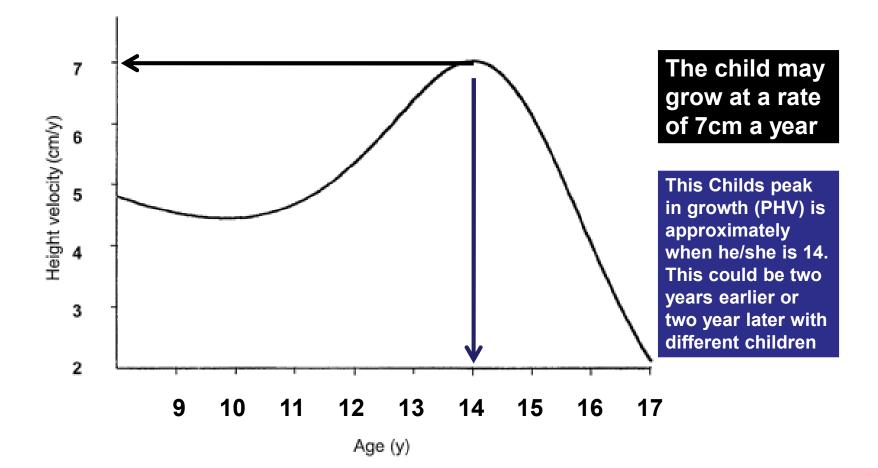


	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Phase	Fun	Development	Participation	Preparation	Performance
Age guide	6-12 years	12-16 years	15-18 years	17-21 years	20 & over

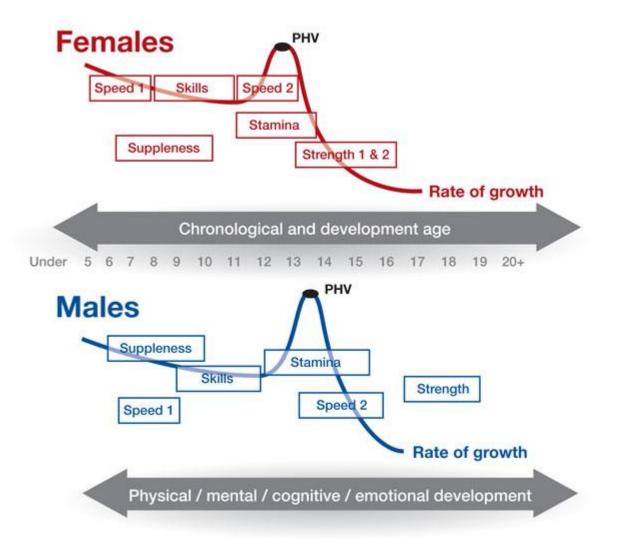
Table 1: The stages of development during the Long Term Player Development Pathway. Note the corresponding chronological age for each stage is given, even though this may vary depending on the maturation age of the player

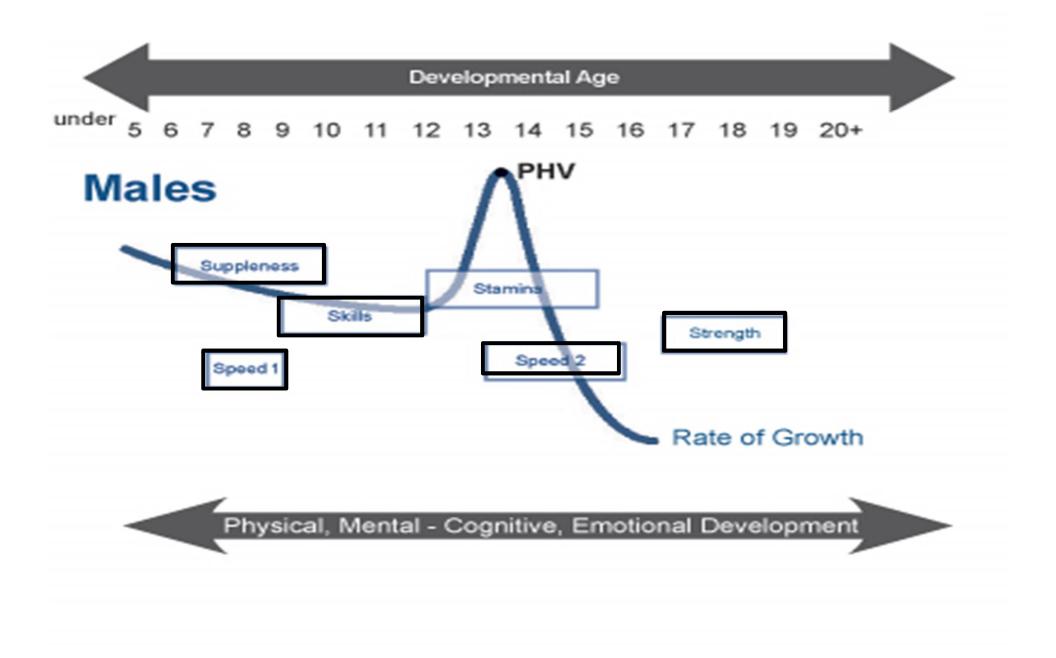


## **Growth Patterns**









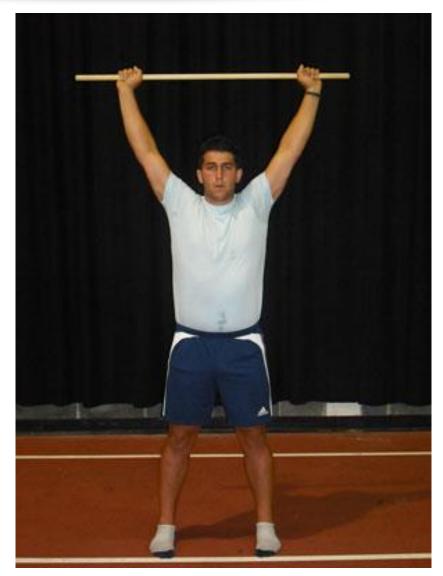
## **Functional Screening**

#### <sup>"</sup> Content

- Introduction
- <sup>"</sup> Facility and equipment required for the overhead squat functional screen
- " Getting set up
- Instructions to the player
- Positioning of the coach
- "Warning
- What to screen
- The 'yes' or 'no' scoring system
- Additional examples of common compensations
- "What are the common compensations during the squat?
- Outcomes
- <sup>"</sup> The coach will be able to administer a basic functional screen.









## **Break** & Explanation of Task

### **Demands of the Game**



#### Content

- Introduction
- " The demands of the game
- The principles of training
- " Warm-up
- Cool-down
- <sup>"</sup>Summary
- References
- Outcomes

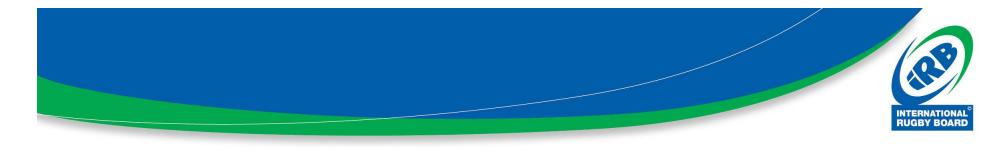


The coach will have an understanding of the demands of the game and will be able to describe the principles of training. In addition, the coach will become familiar with warm-up and cool-down activities.



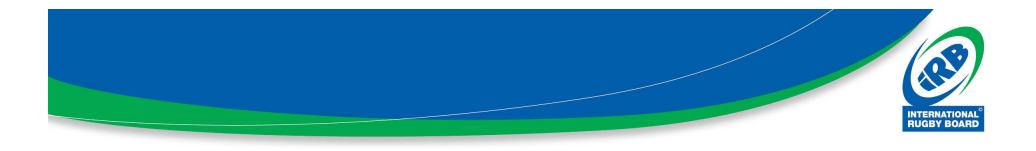
Group	Activity	Total distance covered	Average distance	Frequency
Props & locks	Walk	1000m	14m	73
	Jog	3050m	22m	143
	Cruise	363m	14m	26
	Sprint	94m	20m	4
	Total	4400m	-	-
Back row	Walk	992m	13m	76
	Jog	2940m	29m	154
	Cruise	368m	11m	33
	Sprint	94m	15m	6
	Total	4080m	-	-
Backs	Walk	1660-1740m	14-22m	120-132
	Jog	2110-2600m	16-20m	139-159
	Cruise	514-565m	11-13m	43-45
	Sprint	208-297m	19-24m	12-15
	Total	5530-5750m	-	-

Table 4: Time-motion analysis. Based on the average for three groups: props and locks, back row, and inside and outside backs. Distances are given in metres. Frequency of each type of activity during the game is given (adapted from Deutsch et al, 1998).



Low intensity activity				High intensity activity			
Group	Stand still	Walk	Jog	Medium intensity running / cruising	High intensity run	Sprint	Static exertion
Tight forwards	27:42	26:37	13:19	3:14	0:49	0:17	8:03
Loose forwards	23:34	29:58	14:01	3:17	0:58	0:26	7:47
Inside backs	25:14	34:01	13:57	3:39	1:18	0:17	1:33
Outside backs	21:37	39:11	13:17	2:53	1:21	0:36	1:05

Table 5: The locomotion activities completed during match play and the relative time spent (minutes:seconds) in each activity for players in different positions. N.B. Static exertion (SE) includes scrums, rucks, mauls, lineout lifts and tackles (adapted from Roberts et al, 2008).



Group	Rucking/Mauling	Scrummaging	Tackling
Front row	96	49	19
Back row	68	47	29
Inside backs	21	N/A	28
Outside backs	12	N/A	16.5

Table 6: Frequency (number of activities per game) of rucking/mauling, scrummaging and tackling during match play for players in different positions (adapted from Deutsch et al, 2006).

## **Anatomical Adaptation**

#### <sup>"</sup> Content

- Introduction
- Acute training variables
- "Benefits of anatomical adaptation phase
- Anatomical adaptation integrated with the Rugby programme
- <sup>"</sup> The warm-up for an anatomical adaptation session
- " Bracing the core what is it and how to do it?
- <sup>"</sup> A sample anatomical adaptation circuit
- *Exercise details*
- " Summary
- References
- Outcomes
- <sup>"</sup> The coach will be able to implement an anatomical adaptation programme.

















## Lunch

## & Explanation and Tasks

## Conditioning

### <sup>r</sup> Content

- Defining speed
- " Training modes for speed
- " Summary guidelines for speed development
- " Resistance training
- " Practical speed-related drills
- " Game-related conditioning
- Specificity in training
- "Multi-sprint/activity training
- Additional game-related conditioning drills
- <sup>"</sup> Summary of guidelines for multi-sprint/activity and conditioned games
- " Summary
- " References
- Outcomes
- The coach will have a knowledge and appreciation of the different methods of developing speed acceleration and game-related conditioning. The coach will also be able to implement speed, multi-sprint/activity and conditioned games to advance the match fitness of players.





### **Drills, Exercises & Games**













## **Planning & Periodisation**

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- <sup>"</sup> Content
- Introduction
- " Periodisation what is it?
- " Summary
- <sup>"</sup> References



#### <sup>″</sup> Outcomes

The coach will have an understanding of programme planning and periodisation. The coach will also develop an understanding of the importance of recovery and be able to implement key elements of recovery, such as unloading and tapering, within the programme.

## **Planning & Periodisation**

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- Key terms used .
- <sup>"</sup> Macrocycle
- Mesocycle
- <sup>"</sup> Microcycle
- Double periodised year
- General phase training
- Special phase training
- Maintenance phase
- Wolume
- *Intensity*
- *Tapering*
- <sup>"</sup> Peaking
- "Undulating
- <sup>"</sup> Variation





#### Rate of Perceived Exertion Scale

Rating	Descriptor
6	
7	Very, very light
8	
9	Very light
10	
11	Fairly light
12	
13	Somewhat hard
14	
15	Hard
16	
17	Very hard
18	
19	Very, very hard
20	

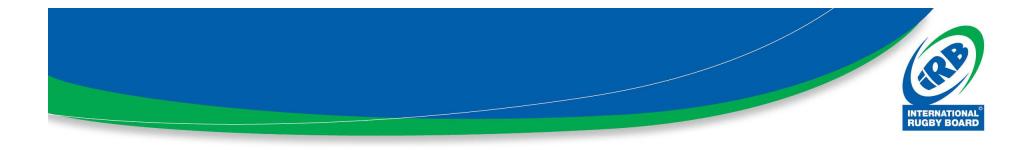
Player identifies intensity 20-30 minutes after unit+ Education of all involved required if system is to be useful Time x PRE = Training load 60 minutes x RPE of 12 = 720 load ('TRIMP') Table 10: Rate of Perceived Exertion Scale (adapted from Foster et al 2001, Kelly and Coutts 2007)



	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
A.M.							
P.M.							



## Break



# Competence Assessment



