Strength & Conditioning

Basketball 5 Week Mesocycle Programme

Michael Carolan



Strength & Conditioning for Sport Specialist Module

Module Code: SS311 & SS3121

Training Programme for Basketball

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Introduction

Course Context:

This is a Strength & Conditioning for Sport Specialist Module offered by the National Certificate in Exercise and Fitness as part of a progression route to achieve the Higher Certificate in Exercise Health Fitness. It's the second year of four-year course designed to provide enough knowledge to its participant to be better equipped to pursue careers in the Sports and Leisure Industry. Students that have attended this course find that they can secure employment with their new qualifications, but most continue and become tutors or specialist researchers in their respective fields. This case study is part of a collection of works needed to meet the overall assessment requirements.

Strength & Conditioning Programming for Basketball:

In this assignment, I will be outlining briefly my screening procedures, providing fitness test results of the individuals under my care. I will design and implement a programme to aid my team to achieve their collective and personal fitness related goals, exampling them as a case study. I will outline the macrocycle of the team consisting of a planned mesocycle composed of 5 micro cycles. The exercise programme will be aimed at developing five components of fitness along with improving some of the sports specific skill related components of fitness i.e. strength, strength endurance, aerobic endurance, speed, speed endurance, acceleration, agility and flexibility.

I will also be documenting the micro cycle sessions and occurrences during my teams mesocycle programme, each micro cycle will involve two on site (Basketball Court) conditioning sessions and two gym sessions. I will be focusing on progressions, adaptations, physical and visual differences, weight gain/loss and overall wellbeing of each of my athletes. I will be evaluating the effectiveness of the programme, retesting their fitness levels to compare to their initial baseline tests, looking for positive improvements and any negative effects that might have occurred, enabling me to make any necessary changes to better assist my athletes. on motivation level, moods, energy levels

The later part of the report will contain an evaluation of the exercise plan with the aim to making it more efficient and effective for the future. I will also take a moment to look at the impact the programme had on the team dynamics and the individual emotional state using a Profile of Mood State questionnaire. I will be documenting and describing the activities and specific outcomes achieved. Finally, I will end with my conclusion, summarising the programme and its effect on my client and explaining all I have learnt and wish to develop upon for good programming for future clients.

Team Profile

The Drogheda Bullets Basket Ball Team St Mary's Diocesan Beamore Drogheda Co. Louth <u>info@droghedabulletsbasketball.com</u> The club was re-established in 2005 and

The club was re-established in 2005 and has grown from strength to strength over the past few years. We run the club so that is dedicated to its members, coaching staff and most importantly it players. Their mission statement is to not only to build great basketball players, but we also aim to help develop and encourage every child. We work hard to develop our young players and we strive to ensure that every child enjoys their time with us. We cater for boys from 7 years to retirement. I myself have been conditioning the starting five & three substitutes of the U17 team.

Training Schedule; Mondays U18 Men 6-8pm. Tuesdays U17 Men 6-8pm. Thursdays U16 Men 6-8pm

- Off-season phase 2-3 months
- Pre-season phase 3-4 months (Current)
- In-season phase 6 months

Skills & Fitness: As a team they are disciplined and have an excellent work ethic and adapt extremely well to situational play, consistently working efficiently together and each player shows initiative on and off the court. These attributes have enabled me to design a programme that I'm sure the team will have no problem adhering to. There are various skill and fitness levels amongst the players, very capable all-round players. This level standard of aerobic fitness is quite high, so this will allow me to focus on, and implement a basic conditioning programme working to improve their anaerobic abilities in speed, agility, power, quickness, strength, explosiveness.

Goals: Their long-term goal is to win the local league in their age category and their short-term goals are to win each match they play. As a team we would like to increase are overall speed, agility, quickness and speed endurance to allay the onset of fatigue as it has affected our play toward the later quarter of the game, which has resulted in unnecessary losses. The most important goal is injury prevention of players.

Game Demands: Basketball is a game of four quarters of twelve minutes each, for a total of forty-eight minutes. It is a fast-paced game involving bouts of high intensity activity followed by a short recovery periods, putting demands on both the anaerobic and aerobic energy systems. Lower limb muscular strength and endurance are important factors to each player along with having good core stability, balance, upper body strength and range of movement. Basketball involves a lot of plyometric movement, jumping, bounding, pivoting, chopping and movements both linearly and laterally in direction. Speed, agility and quickness will be my focus as these skills are essential in the game. The following program takes all this into account and caters for the different elements used throughout the game.

Health Screening Form

Client Information, Medical Information Form & Next of Kin Form

C	lient Information			
Name:	John Smith			
Date of Birth:	31/07/2000			
Gender:	Male			
Height:	6ft 2" (cm)			
Current Weight:	12st 2lbs (71.1 kg)			
Body Type:	Athletic			
Address:	Xxxxxxxx			
	Хххххх			
Phone Number:	087-xxxxxxx			
E-mail:	xxxxxxxxxx@gmail.co	m		
Occupation:	Student			
	ergency, Please Contact no.1			
Name:				
Relationship:	Spouse			
Gender:	Male			
Address: Phone Number:				
Work Phone:				
E-mail:				
	nt Madiaal History			
Name of Doctor:	ent Medical History Doctor Smith			
Address:	9 High St,			
Address.	Mullaghmonaghan,			
	Co. Monaghan			
	ee. Monaghan			
Phone Number:	Phone: (047) 83449			
E-mail:	Dr.msmithmd@gmail.cor	n		
E-mail: Clie	Dr.msmithmd@gmail.cor ent Medical History			
E-mail: Clie Please answer the following questions tre	Dr.msmithmd@gmail.cor ent Medical History	n YES	NO	UNSURE
E-mail: Clie Please answer the following questions true Are you on any medication at present?	Dr.msmithmd@gmail.cor ent Medical History		X	UNSURE
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E-mail: Clie Please answer the following questions true Are you on any medication at present? Do you smoke? Are you pregnant? Do you suffer from stress or anxiety? Do you suffer from allergies? If yes, please list: Have you ever suffered from faintness or diz If yes, please elaborate: Do you have high blood pressure? Do you have high blood pressure? Do you have high cholesterol? Do you suffer from joint pain? Have you ever suffered from chest pain durin Have you ever suffered from unusual shortm	Dr.msmithmd@gmail.cor ent Medical History uthfully zziness? ng or after physical activity? ess of breath?		X X X X X X X X X X X X X X X	

Health Screening Form Lifestyle Information Form

Client Nutritional Information			
Please answer the following questions truthfully	YES	NO	UNSURE
Do you eat the daily recommend 5-6 portions of fruit and vegetables per day?	Х		
Do you consume sugar on daily basis?	Х		
Do you consume salt on daily basis?		Х	
Do you often use condiments and dressings along with your food?	Х		
Do you eat fast food during a 28-day cycle?		Х	
If yes, please state what kind and how often:			
Do you drink alcohol more than twice a week?		Х	
Are you aware of the EU guidelines on the RDA of certain food types?		Х	
Are you allergic to any food substance?		Х	
If yes, please list:			
Do you drink sodas or diet sodas?		Х	
If yes, approx. how many per week:			
How many litres of water do consume in any 24-hour period? 2 litres	Х		
Do you take any dietary supplements?	Х		
If yes, please state what kind and how often: i.e. Vitamin C Daily			
Are you able to interpret food labels and their ingredients?	X		
Do you experience any large or frequent weight fluctuations?	X		
Do you consume any beverages that contain caffeine daily?		Х	

Client Current Activity/Exercise Information				
Please answer the following questions truthfully	YE S	NO	UNSURE	
Do you exercise or play sport for at least thirty minutes or more three times a week?	X			
Does your occupation involve 30 mins or more of physical activity per day?	Х			
Do you warm up and warm down before and after exercise?	Х			
Do you stretch pre-and post-exercise?		Х		
Are you the appropriate weight for your height and gender per your BMI?	X			
Do you prefer to drive or walk to the local shops?		Х		
Would you be more inclined to use stairs rather than a lift or escalator where possible?	X			
In general, are you happy with your current appearance and body composition?	X			
Can you devote more than 10 hours a week to training?	X			
Are you satisfied with your current energy levels?		Х		
Do you partake in any other sporting activities such as running, swimming etc.? If yes, please list:	X			

Sample Informed Consent Form

I ________ declare that I intend to take part in the fitness- testing and exercise and fitness programme offered by *Michael Carolan*. I am aware that as with all types of exercise, there is an inherent risk of heart attack, light-headedness, fainting, cramps, muscles or joint injury, stroke etc. I acknowledge that my choice to participate in this exercise programme brings with it the assumption by me of those risks, and I understand that I am free to withdraw from this programme or modify my activity levels at any time. I assume full responsibility during and after my participation to use or apply at my own risk any portion of the information or instruction I receive. I understand that *Michael Carolan* accepts no responsibility whatsoever for any injuries or death during or after participation in the fitness testing and exercise programme to follow.

I agree that I have read, understood, and agree to the contents in its entirety of this informed consent agreement.

Signed:	(Participant)
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Date: _____

Signed: ______(Witness)

Date: _____

Recording Results – Fitness Test/Assessment

To gauge the individual strengths, weaknesses and monitor their progress I have fitness tested each player at the beginning of the programme to establish a benchmark/baseline, and to be retested at the end of the mesocycle. This will help my athletes stay focused and motivated to achieve their goals and help me to monitor their progress and the effectiveness of the programming, adapting it accordingly if needed. I will include another periodic fitness assessment for comparison. Before testing I conducted a functional movement screen (FMS) on each player to make sure there were no underlying mobility or stability issues. Athletes 2,4,5,7 & 8 each scored 20 and athletes 1,3 & 6 each scored 18 which means they all possess a good performance pyramid rating. i.e. good sports specific skills, functional performance quantity and functional movement quality.

Recording Results – Athlete - Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data <i>(for ag and gender)</i>
20 metre MSFT (Beep Test)	Cardiovascular Endurance		
Vertical Jump (Wall & Chalk)	Leg Strength & Power	inches	
Sprint Fatigue Test	Anaerobic Capacity	%	
T-Test	Agility	secs	
Hand Eye Coordination Test	Coordination	catches	
Sit and Reach	Flexibility (Lower body)	cm	
Standing Stork Test	Balance	secs	
One Minute Squat Test	Muscular Endurance (Lower Body)		
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	mm	
Weight	Body Composition	kg	

Sample Result Table

Important: The choice of testing was sport specific to Basketball and its demands. The fitness test and measuring of physicality were carried out over a two-day period, the 1st & 2ndof October at 14:00pm in an enclosed area. The follow up tests will be repeated at the same time of day and under the same conditions 35-40 days from the initial test. All protocols must be identical. (Vertical Jump Test was a no step jump.)

The seven skinfold sites tested: triceps, bicep, subscapular, supra-spinal, abdominal, thigh and calf. To be tested at the same locations during the next assessment.

Normative Data (for age and gender) Table can be found at: www.topendsports.com/testing/norms/

Michael Carolan

Pre-Exercise Programme Statistics

Recording Results – Fitness Test/Assessment

Recording Results – Athlete 1- Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	11	V. Good
Vertical Jump (Wall & Chalk)	Leg Strength & Power	21.5 inches	Above Average
Sprint Fatigue Test	Anaerobic Capacity	80 %	Average
T-Test	Agility	11.82 secs	Poor
Hand Eye Coordination Test	Coordination	41 catches	Excellent
Sit and Reach	Flexibility (Lower body)	15 cm	Good
Standing Stork Test	Balance	45secs	Good
One Minute Squat Test	Muscular Endurance (Lower Body)	51	Excellent
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	86 mm	Average
Weight	Body Composition	74.6 kg	N/A

Recording Results – Athlete 2 - Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	12	V. Good
Vertical Jump (Wall & Chalk)	Leg Strength & Power	23.9 inches	Above Average
Sprint Fatigue Test	Anaerobic Capacity	76 %	Poor
T-Test	Agility	9.98 secs	Good
Hand Eye Coordination Test	Coordination	33 catches	Good
Sit and Reach	Flexibility (Lower body)	21 cm	Excellent
Standing Stork Test	Balance	57secs	Excellent
One Minute Squat Test	Muscular Endurance (Lower Body)	46	Good
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	76 mm	Good
Weight	Body Composition	68.7 kg	N/A

Recording Results – Fitness Test/Assessment

Recording Results – Athlete 3- Fitness Test/Assessment Number 1				
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)	
20 metre MSFT (Beep Test)	Cardiovascular Endurance	10	Good	
Vertical Jump (Wall & Chalk)	Leg Strength & Power	24.2 inches	V. Good	
Sprint Fatigue Test	Anaerobic Capacity	85 %	Good	
T-Test	Agility	10.97 secs	Average	
Hand Eye Coordination Test	Coordination	22 catches	Average	
Sit and Reach	Flexibility (Lower body)	19 cm	Excellent	
Standing Stork Test	Balance	37 secs	Average	
One Minute Squat Test	Muscular Endurance (Lower Body)	39	Above Average	
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	80 mm	Good	
Weight	Body Composition	79.5kg	N/A	

Recording Results – Athlete 4- Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	13	Excellent
Vertical Jump (Wall & Chalk)	Leg Strength & Power	26.3 inches	V. Good
Sprint Fatigue Test	Anaerobic Capacity	81 %	Average
T-Test	Agility	10.55secs	Good
Hand Eye Coordination Test	Coordination	27 catches	Average
Sit and Reach	Flexibility (Lower body)	16 cm	Good
Standing Stork Test	Balance	43 secs	Good
One Minute Squat Test	Muscular Endurance (Lower Body)	52	Excellent
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	69 mm	Good
Weight	Body Composition	70.4 kg	N/A

Recording Results – Fitness Test/Assessment

Recording Results – Athlete 5- Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	9	Good
Vertical Jump (Wall & Chalk)	Leg Strength & Power	19.8 inches	Average
Sprint Fatigue Test	Anaerobic Capacity	83 %	Average
T-Test	Agility	10.96 secs	Average
Hand Eye Coordination Test	Coordination	36 catches	Excellent
Sit and Reach	Flexibility (Lower body)	9 cm	Good
Standing Stork Test	Balance	19 secs	Fair
One Minute Squat Test	Muscular Endurance (Lower Body)	44	Good
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	74 mm	Good
Weight	Body Composition	80.4kg	N/A

Recording Results – Athlete 6- Fitness Test/Assessment Number 1			
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	8	Average
Vertical Jump (Wall & Chalk)	Leg Strength & Power	26.5 inches	V. Good
Sprint Fatigue Test	Anaerobic Capacity	77%	Poor
T-Test	Agility	11.54 secs	Poor
Hand Eye Coordination Test	Coordination	32 catches	Good
Sit and Reach	Flexibility (Lower body)	12 cm	Good
Standing Stork Test	Balance	38 secs	Average
One Minute Squat Test	Muscular Endurance (Lower Body)	39	Above Average
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	63 mm	Good
Weight	Body Composition	72.5kg	N/A

Recording Results – Fitness Test/Assessment

Recording Results – Athlete 7- Fitness Test/Assessment Number 1				
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)	
20 metre MSFT (Beep Test)	Cardiovascular Endurance	14	Excellent	
Vertical Jump (Wall & Chalk)	Leg Strength & Power	27.6 inches	V. Good	
Sprint Fatigue Test	Anaerobic Capacity	83 %	Average	
T-Test	Agility	10.23secs	Good	
Hand Eye Coordination Test	Coordination	38 catches	Excellent	
Sit and Reach	Flexibility (Lower body)	23 cm	Excellent	
Standing Stork Test	Balance	25 secs	Average	
One Minute Squat Test	Muscular Endurance (Lower Body)	41	Above Average	
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	73 mm	Good	
Weight	Body Composition	77.2kg	N/A	

Record	ding Results – Athlete 8- Fi	tness Test/Assessment N	lumber 1
Name of Fitness Test	Specific Component Tested	Result	Comparison to Normative Data (for age and gender)
20 metre MSFT (Beep Test)	Cardiovascular Endurance	11.5	V. Good
Vertical Jump (Wall & Chalk)	Leg Strength & Power	25.8 inches	V. Good
Sprint Fatigue Test	Anaerobic Capacity	80 %	Average
T-Test	Agility	12 secs	Poor
Hand Eye Coordination Test	Coordination	31 catches	Good
Sit and Reach	Flexibility (Lower body)	11 cm	Good
Standing Stork Test	Balance	11 secs	Fair
One Minute Squat Test	Muscular Endurance (Lower Body)	48	Good
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	89 mm	Average
Weight	Body Composition	80.5kg	N/A

NCEF

Designing & Implementing Periodized Programme (5Mesocycle)

Now that I have accumulated and analysed all the relevant data, I can now begin work on designing and implementing a Meso cycle workout programme for the athletes. I will devise a 5-week (1 week is a microcycle) programme using the FITT principle incorporating the seven principles of training and concentrate on improving the following health related components of fitness: strength, muscle endurance, flexibility, body composition and maintaining their levels of cardio vascular fitness. I will also add a session of sports specific exercises to aid in the development of their skill related components power, coordination but with special attention on improving their overall speed acceleration & endurance, agility and quickness.

I have designed my programme to be used in the gym setting but I have encouraged the players to develop some body weight, resistance bands & flexibility routines to compliment the programme for the days that they can't make it to the gym along with some CV exercises such as skipping or swimming. As time can be an issue, I have added a flexibility routine to follow the main phase of our routines and this will be integrated as part of a cool down as post stretch. I will dedicate one day of the athlete's recovery days to accommodate for a full session of flexibly training, as it is recommended that a flexibility routine should be performed at least three – five times per week.

In the design of my cycles, I have considered the conditioning principles of training:) 1 Body Reaction to Stress 2) Predictable Rate of Improvement 3) Limits to Improvement 4) Diminishing Returns 5) Accelerating Setbacks 6) Specificity of Training and 7) Ease of Maintenance. I have also used the S.M.A.R.T.E.R. (Specific, Measurable, Agreed, Realistic, Time-Phased, Exciting & Recorded) principles of goal setting. acronym whilst preparing the meso and micro cycles, allowing better adherence and enjoyment in the

weeks to follow.

Basketball 12 Month Mono Macrocycle

Months	Jul	Aug	Sep	Oct 📕	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Macro-Mono- Cycle	Early Pre- Season	Mid P Seasc				In Season					Off Season	
Training Phases	Preparatio	n			Com	oetitive					Transit (Prep)	tion
Sub Phases	General Preparati on	Specif Prepa			Pre- Co mp	Co Off			-			
Strength	Functional Machine & weights		Maxim um Streng th	Power & Muscular Endurance	Maint	Maintenance of Power & Strength			1	Compe	ensation	
Endurance	Aerobic Er	nduranc	e	Maintain Aero (or bring in) Specific Endu					Aerobi Endura	•		
Speed, Agility & Quickness	A-lactic & l Speed Endurance (FARTLEK)	& Decele Anaerob Running	ic Endurance (Tempo	Reaction Time			Rest, Relaxation & Games			
Flexibility				Maintain Thro	ughout	the Mor	io Mac	ro Cyc	le.			

My Mesocycle

Michael Carolan

Designing & Implementing Periodized Programme(Micro-cyclesx5)

NCEF

Now that the mesocycle period of training has been established I will break it down further into five weekly micro-cycles, each containing 2 gym sessions and 2 on court sessions both focusing on the different skill and health related components of fitness that need to be enhanced.

Beginnin	g October 2 nd	, 2017	Micı	o Cycle						
	Late Pre-Season to Early in Season Training Schedule									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat				
Recovery	Resistance Training Mixed Up & Low Body Jumping	Speed & Agility Drills Reaction Drills	Practise Game with Coach &	Resistance Training Mixed Upper & Lower Conditioning	Speed & Agility Drills Reaction	Recovery				
	Plyometrics Conditioning	Mixed Plyometrics	Own Workout of Choice	Quick Feet Plyometrics	Drills Medicine Ball Workout					
	Skill Development Flexibility	Skill Development Flexibility		Skill Development Flexibility	Skill Development Flexibility	Flexibility				

It is an active time during this phase, as the players have built up their other attributes i.e. strength, CV endurance, etc. I will be attempting to maintain the team's physical fitness for them to peak close to the post season trying to avoid burnout, also working on their speed and agility. The resistance elements focus on maintaining strength, muscular endurance and power (Olympic lifts & Kettlebell training). The subsequent routines will be based on the following table using the FITT principle guidelines below.

	Muscular Endurance	Strength	Flexibility	Cardiovascular Endurance
Frequency	3 – 5 Times per week Daily for some muscle groups	3 – 4 Times per week	Daily Warm-up (Dynamic Stretching) Cool-down (Floor Based Static)	3-5 Times per week
Intensity	60%- 70% of 1RMfor novice to intermediate clients and 40% - 50% of 1RM for sedentary or older clients	60%- 85% of MHR 60%-70% of 1RM for novice 80% and above for experienced strength trainers.	To the point of tension Short Hold 5-6 secs Long Hold 15-30 secs Total Body 1-3 reps	60% - 85% of MHR
Time	As Long as It Takes to do 10-15 Reps Rest between sets 30-60 secs	As long as it takes to complete 2-12 Reps	10-15 minutes	30-60 mins of moderate or 10-60 mins of vigorous exercise
Туре	Resistance training Body weight Circuit Training Kettle-Bells	Resistance training: mainly compound exercises.	Static stretch Controlled dynamic stretch PNF (<i>proprioceptive</i> <i>neuromuscular</i> <i>facilitation</i>) stretching	Aerobic: Running, swimming, rowing, cycling etc.

NCEF

Designing & Implementing Periodized Programme (Micro-cycles x5)

Equipment:

Dumbbells x2, weights ranging from 4kg, 6kg, 8kg & 10Kg. Gym Facilities and Machine equipment, weights ranging from 10kg - 200kg Kettlebells weights from 6kg - 20kg Medicine balls 5kg - 10kg Floor mats Tennis Balls Agility Ball Adjustable Step **Plyometric Box** Speed Ladders x4 Hurdles 6,9 & 12 inches **Coloured Cones** Mini resistance bands Water Towels Stopwatch/ Tabata Timer

Bench

Teams Targets and Goals (using SMART):

Workout 4-5 times per week Increase overall flexibility and to gain at least 5cm each on sit and reach test Improve BMI by 5% - 10% Improve muscular strength Increase muscle endurance Complete every session for the whole mesocycle Avoid injury Maintain CV Fitness Improve speed and agility Injury prevention

Average Maximum Heart Rate(MHR) of Team:

220 - 17 (age) = 203 BPM

From this, I can work out Training Zones or Intensity Percentages

Implementing Periodized Programme (Micro-cycles x5)

The Sun Salutation to be completed at the beginning and end of each main phase as part of the warm up and cool down cycle. The Plank Variations, Tabata style at the beginning of each session both gym and court sessions. They are so placed to maximise my athlete's potential to increase their overall flexibility. At the same time strengthening their core, which is essential for executing proper exercise technique, leading to better posture and reducing the likely-hood of injury.



Exercises	Primary Muscles Worked	Time On (secs)	Time off (secs)	Reps
Normal Plank	Lower Abdominals	30	15	1
Raised Plank	Pectorals & Abdominals	30	15	1
Side Plank Right	Right Oblique's	30	15	1
Side Plank Left	Left Oblique's	30	15	1
Shoulder Bridge	Erector Spinae	30	15	1
In weeks 3-4 I will add	10 secs to time on and add	l 1 extra cycle v	vith a rest of 1min betwe	en sets

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Gym Warmup - Dynamic Stretching Routine Gym	Courtside Warmup Routine (10 Mins)
Sun Salutation x2 cycles	Sun Salutation x2 cycles
Neck Rolls (x5 Each Way, Left to Right & R to L)	Shoulder Rolls & Wring out The Towels (x5)
Shoulder Rolls & Wring out The Towels (x5)	Arm Swings (Multidirectional)
Arm Swings (Multidirectional)	Bicep Curls (x10 Each Side)
Bicep Curls (x10 Each Side)	Inchworm Walkout (x3 Keeping Legs Straight)
Side to Side Lean (x4 Keep Back Neutral)	Slow Mountain Climb (x3)
Inchworm Walkout (x4 Keeping Legs Straight)	World's Greatest Stretch (x3 Each Side)
Slow Mountain Climb (x6 Each Side Knee to Elbow)	Quad Stretch, Hamstring Stretch back, Calf Raise
World's Greatest Stretch (x5 Each Side)	Stretch up and Ankle Pull Stretch back(Glutes) x2
Knee Hug to Quad Stretch (x5 Each Side)	Jog to Half Court & Backpedal to Baseline x2
Calf to Hamstring Stretch (x5 Each Side)	Crossover & Trunk Rotation to Half Court & Back
Air Squat into Calf Raise (x10)	High Hurdles Outward Rotation(L&R) to Half Court,
Forward Lunge (x5 Each Side)	High Hurdles Inward Rotation Back to Baseline
Lateral Lunge & Rotate (x5 Each Side)	Butt kickers To Half Court, Jog Back to baseline x1
2 Min Pulse Raiser: 40 Secs each of Jump Jacks,	Skip to Half Court, Skip Back to baseline x1
Jog with High Knees & Butt-Kickers.	40 Secs Pulse Raiser: Jump Jacks

Implementing Periodized Programme (Micro-cycles x5)

Flexibility/Stretching

Туре	Frequency	Time		Intensity	
Flexibility/Full Body	Once a Week	40 mins		Point of Te	nsion
Stretch	Recovery				
Exercises/Movements	Day No. of reps	Hold	Exercises/Movements	No. of	Hold
		Pose		Reps	Pose
		(secs)			(secs)
Rotating neck stretch*	2 (L&R)	15-30	Standing toe-raise calf stretch	2 (L&R)	15-30
Parallel arm shoulder stretches	2 (L&R)	15-30	Sitting toe pull calf stretch*	2 (L&R)	15-30
Cross over shoulder stretch*	2 (L&R)	15-30	Sitting knee-up rotation stretch	2 (L&R)	15-30
Reverse shoulder stretches	2	15-30	Reaching lateral side stretch*	2 (L&R)	15-30
Triceps stretch*	2 (L&R)	15-30	Kneeling quad stretch	2 (L&R)	15-30
Parallel arm chest stretch*	2	15-30	Lying quad stretch*	2 (L&R)	15-30
Rising stomach stretch	2	15-30	Double lean back quad stretch	2	15-30
Standing side stomach stretch	2	15-30	Standing pointed toe hamstring stretch	2 (L&R)	15-30
Lying whole body stretch*	2	15-30	Sitting reach forward hamstring stretch	2 (L&R)	15-30
Sitting side reach stretch	2 (L&R)	15-30	Lying reach down hamstring stretch*	2	15-30
Lying knee stretch*	2 (L&R)	15-30	Sitting feet together adductor stretch	2	15-30
Kneeling reach forward stretch	2	15-30	Sitting wide leg adductor stretch*	2	15-30
Kneeling back rotation stretch	2 (L&R)	15-30	Lying abductor stretch*	2 (L&R)	15-30
Lying leg cross-over stretch	2 (L&R)	15-30	Leaning heel back Achilles stretch	2 (L&R)	15-30
Sitting feet together reach forward stretch*	2	15-30	Double kneeling shin stretch	2	15-30
	This session is	designed to	o be used by the athletes whils	t at home or	if
Rationale	travelling as there is no equipment needed it is extremely versatile. It covers all				
	the major muse	cle groups.	Stretches highlighted in bold n	nake up the §	5 -10-
	minute cool do	wn routine t	to be used after every gym and	l court sessio	on.

Michael Carolan

Implementing Periodized Programme: Mondays Gym Sessions 1 & 5

Warm Up		8- 10 mir	ns The Gym D	ynamic Warm	n Up	
Type Resistance Training M	lixed	Frequen Once per		Time 60 mins +	Intensity	
Exercises	Muscles/Body Parts	No. of Sets	No. of Reps	Rest	70% of 1RM	
Leg Press Quadriceps, Gluteus Maximus, Gastrocnemius & Erector spinae		3	12	60 Secs		
Lat Pulldown	Biceps, Latissimus Dorsi & Teres major	3	12	60 Secs		
Calve-Raise/Leg Press	Gastrocnemius	3	12	60 Secs		
Shoulder Press Deltoid & Triceps		3	12	60 Secs		
Hamstring Curl Hamstring		3	12	60 Secs		
Chest Press Pectorals Major, Triceps & Anterior Deltoids		3	12	60 Secs		
Machine Row	Trapezius & Forearm	3	12	60 Secs		
Power Development					Intensity	
Barbell Olympic Clean & Jerk	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae.	3	3	3-5mins	70% of 1RM	
Jumping Plyometrics					Intensity	
Double Leg Box Jumps	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae	2	6	90Secs	Anaerobic 90% MHR	
Conditioning	· · ·				Intensity	
Treadmill	Full Body	1	5 x 200m	60 Secs Active Recovery	Aerobic 60% MHR	
Cool Down 10 -15 mins of stretching. (Using the stretches listed in bold *)						

The first session was a great success, we had a full turnout by the team, and great work rate by all. They are frequently using machines as a form of training, so I will introduce a kettle bell routine on Thursdays as their other form of resistance training to help keep them motivated. I split the exercises into lower then upper purposefully, to be used as an active recovery if the guys wanted to combine two exercises instead of waiting, doing nothing to recover. I also made sure that both agonistic and agonistic muscles where being equally utilised, the tempo count was: 1 up (Positive) & 3 down (Negative). As we are training for power, I brought in the Olympic Clean & Jerk to help achieve explosiveness, utilising triple extension phases of the legs which should translate to a more powerful jump, this complements the double leg box jumps giving the lower legs an almost superset like workout. It was difficult to keep an eye on everybody and check their technique and to make sure they were doing the correct rep ranges will have to manage the group better for the next live session. I didn't attend Session 5, but we had a full turnout again and no incidents. Any future adaptations to the routines will be highlighted in bold. Organising the players will take a bit more practice.

Implementing Periodized Programme: Mondays Sessions 9 & 13

Warm Up		8 mins T	he Gym Dyna	mic Warm Up	
Type Resistance Training	Mixed	Frequen Once pe		Time 60 mins +	Intensity
Exercises	Muscles/Body Parts	No. of Sets	No. of Reps	Rest	70% of 1RM
Leg Press	Quadriceps, Gluteus Maximus, Gastrocnemius & Erector spinae	3	12	60 Secs	
Lat Pulldown	Biceps, Latissimus Dorsi & Teres major	3	12	60 Secs	
Calve-Raise/Leg Press	Gastrocnemius	3	12	60 Secs	
Shoulder Press	Deltoid & Triceps	3	12	60 Secs	
Hamstring Curl	Hamstring	3	12	60 Secs	1
Chest Press	Pectorals Major, Triceps & Anterior Deltoids	3	12	60 Secs	-
Machine Row	Trapezius & Forearm	3	12	60 Secs	
Power Development	t				Intensity
Barbell Olympic Clean & Jerk	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae.	3	3	3-5mins	75% of 1RM
Jumping Plyometric					Intensity
Double Leg Box Jumps	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae	3	6	90Secs	Anaerobio 90% MHF
Conditioning					Intensity
Treadmill	Full Body	2	5 x 200m	60 Secs Active Recovery	Aerobic 60% MHF
Cool Down	10 -15 mins of stretching. (Using	the stretch	hes listed in bo		
Sessions 9 & 13 are	progressed in the form of raising the	e 1RM per	centile by the i	recommended	5% for bot
the Olympic Clean &	& Jerk and the resistance session exe	ercises. Th	is should be e	nough to crea	ite a new
phase of shock, beg	jinning the process of General Adapt	ion Syndro	ome (GAS). I a	llso reduced th	ne warmup
time and increased	the sets to be performed by 1. No iss	sues at trai	ning today and	d only one abs	enteeism.

Implementing Periodized Programme: Mondays Gym Session 17

Warm Up		8 mins T	he Gym Dyna	mic Warm Up	
Type Resistance Training	Mixed	Frequen Once pe		Time 60 mins +	Intensity
Exercises	Muscles/Body Parts	No. of Sets	No. of Reps	Rest	75% of 1RM
Leg Press	Quadriceps, Gluteus Maximus, Gastrocnemius & Erector spinae	2	12	60 Secs	
Lat Pulldown	Biceps, Latissimus Dorsi & Teres major	2	12	60 Secs	-
Calve-Raise/Leg Press	Gastrocnemius	2	12	60 Secs	
Shoulder Press	Deltoid & Triceps	2	12	60 Secs	
Hamstring Curl	Hamstring	2	12	60 Secs	
Chest Press	Pectorals Major, Triceps & Anterior Deltoids	2	12	60 Secs	
Machine Row	Trapezius & Forearm	2	12	60 Secs	
Power Development					Intensity
Barbell Olympic Clean & Jerk	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae.	2	3	3-5mins	75% of 1RM
Jumping Plyometrics					Intensity
Double Leg, Box Jumps	Quadriceps, Gluteus Maximus, Gastrocnemius, Hamstring Erector spinae	2	6	90Secs	Anaerobic 90% MHR
Conditioning					Intensity
Treadmill	Full Body	1	5 x 200m	60 Secs Active Recovery	Aerobic 60% MHR
Cool Down	10 -15 mins of stretching. (Using	the stretch	nes listed in bo	old *)	
This week sees a re	duction in the intensity and number of	of each exe	ercise, a strate	gy employed	to allow the
muscles to compens	ate for the previous weeks efforts, a	ilso known	as tapering. I	found the bes	t way to
reduce the workload	was to reduce the number of sets to	be execut	ted, this will al	low for better	recovery
during the compensation	ation phase of adaptation. Another ty	wo membe	rs absent toniç	ght, it justifies	having the
mixed routine as the	y won't miss too much work until the	e next sessi	ion. Will have	to speak to th	e guys to
stop anyone else fro	m missing sessions.				

Implementing Periodized Programme: Thursdays Sessions 3 & 7

Part 1	KB Exercise		KB weight	Sets & Reps		Recovery
Mixed	Kettlebell Lun	ges	8kg x2	12 Reps x 3 Sets	;	60 secs
	Kettlebell Swi	-	12kg	12 Reps x 3 Sets	5	60 secs
	Goblet Squat		12kg	12 Reps x 3 Sets	5	60 secs
	Rear Lunges		8kg x2	12 Reps x 3 Sets	5	60 secs
	The Pistol Variation / Squat 6			12 Reps x2 (Left	& Right side)	60 secs
	Box			3 Sets		
Part 2	KB Exercise		KB weight	Sets & Reps		Recovery
Ladders	Snatch		6kg,		kg x 12 reps, 8kg	60 Secs
			8kg,10kg,	x10 reps, 10kg x		
					ps, 10kg x 8 reps.	
				Total Reps: 80		00.0
	Military Press		4kg,6kg,8kg		kg x 12 reps, 6kg	60 Secs
				x10 reps, 8kg x 8 reps, 6kg x 10 re		
				Total Reps: 80	ps, oky x o teps.	
	Pull over		4kg,6kg,	3 Sate: 1 Sat - 1	ka v 12 rons 6ka	60 Secs
	Fullover	Fuil over		3 Sets: 1 Set = 4kg x 12 reps, 6kg x10 reps, 8kg x 8 reps, 4kg x 12		00 3603
			8kg	reps, 6kg x 10 re		
				Total Reps: 80	po, eng x e reper	
	Bulgarian Get	Up Variation	6kg	•	t & Right side) x 3	60 Secs
	(Standing Pos	sition)		Sets	•	
				Technical Recov	ery between Sets	
		C	Quick Feet Plye	ometrics	-	
Speed Lad	der Drill	No. of Sets	No. of Reps	Rest	Intensity	
1 Foot In 1	Foot Out	2	6	60Secs	Anaerobic 90% M	łR
Conditionin	g				Intensity	
Cross-	Full Body	1	Level 18	60 Secs Active	Aerobic 60% MHF	2
Trainer			5mins x 3	Recovery		
The first pa	art of the routine	uses the found	ation moves in	KB training and is	very basic, using th	e typical
system in L	ocal Muscular E	Endurance (LM	E) training, of h	igh reps and low w	eights for each exe	cise. The
•			, .	•	lifted lightest first wi	
•	•	•			C	
0	•	0 1	0		the amount of reps,	
incorporatii	ng Strength Trai	ning as well as	LME. There is	a focus on lower li	mb exercises, as the	ese are the
muscles pr	edominately use	ed in basketball	, but I have inco	orporated upper bo	ody exercise to main	tain
balance in	the workout. I ha	ave also added	a technical exe	ercise which will be	gradually improved	upon ovei
					easure their progress	•
			•			51011,
	the acting ac a m	notivational tool	1 - ood rocpond	se by the team, sor	nothing different	

Implementing Periodized Programme: Thursdays Sessions 11 & 15

Part 1	KB E	xercise		KE	8 weight	Sets & Reps		Recovery
Mixed	Kettle	ebell Lung	es	8k	g x2	16 Reps		60 secs
		-			-	3 Sets		
	Kettle	ebell Swing	3	16	kg	12 Reps		60 secs
					-	3 Sets		
	Goblet Squat			16	kg	12 Reps		60 secs
						3 Sets		
	Rear	Rear Lunges		8k	g x2	16 Reps		60 secs
						3 Sets		
	The F	Pistol Full		As	sisted/Body	15 Reps x2 (Left & I	Right side)	60 secs
	Assis	sted/TRX	Strap	We	eight Only	3 Sets		
Part 2	KB E	xercise		KE	3 weight	Sets & Reps		Recovery
Ladders	Snato	ch		8k	g,10kg,12kg	3 Sets: 1 Set = 8kg 2	k 12 reps,	90 Secs
						10kg x10 reps, 12kg	x 8 reps,	
						8kg x 12 reps, 10kg	x 10 reps,	
						12kg x 8 reps. Total	Reps : 80	
	Botto	om Up Pre	ess	6k	g,8kg,10kg	3 Sets: 1 Set = 6kg 2	-	90 Secs
	(More	e Advance	d than			8kg x 10 reps, 10kg	x 8 reps,	
	the N	lilitary Pres	ss)			4kg x 12 reps, 6kg x	10 reps,	
						8kg x 8 reps. Total I		
	Pull c	over		6k	g,8kg,10kg	3 Sets: 1 Set = 6kg 2	k 12 reps,	90 Secs
						8kg x10 reps, 10kg x	k 8 reps, 6kg	
						x 12 reps, 8kg x 10 ı	eps, 10kg x	
						8 reps. Total Reps:		
	-	arian Get	Up	6k	g	12 Reps x 2 (Left & Right side) x		60 Secs
	(Full	Move)				3 Sets/Technical Re	covery	
					Quick Feet F	Plyometrics		
Speed La	dder D	rill	No. of		No. of Reps	Rest	Intensity	
			Sets					
1 Foot In 7	1 Foot	Out	3		6	60Secs	Anaerobic 90	0% MHR
			Cond	itio	nina		Intensity	
Cross-Tra	iner	Full	2		Level 18	60 Secs Active	Aerobic 60%	6 MHR
01035-114		Body	2		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Recovery		
These two			increase	n in i		5	ha daily rautin	o to provent my
					•	(Bs used throughout t	•	
athletes fr	om pla	iteauing. T	he excep	tion	s to this weigh	t change were the Ke	ttlebell Lunge	s and Rear
Lunges, I	have k	ept them a	at 8kg x2((L&F	R) but increase	d the number of reps	to 16 to preve	ent over training. I
have prog	ressec	I the Bulga	rian Get	Up a	and the Pistol 1	to their full versions, th	ne later withou	ut weigh and with
		•		•		ore attempting the wei		U
		•			•	tions, I have introduce	•	
•		• •			•			0011633, 11016
auvanced	man ti	ne ivillitary	riess DU	it US	ing a lot of the	same muscles.		

Implementing Periodized Programme: Thursdays Gym Session 19

Part 1	KB Exercise		KB weight	Sets & Reps		Recovery
Mixed	Kettlebell Lur	nges	8kg x2	12 Reps Set 1,		60 secs
				8 Reps Set 2.		
	Kettlebell Swing		16kg	12 Reps Set 1,		60 secs
				8 Reps Set 2.		
	Goblet Squat		16kg	12 Reps Set 1,		60 secs
				10 Reps Set 2.		
	Rear Lunges		8kg x2	12 Reps Set 1, 8 Reps Set 1.		60 secs
	The Full Pist	ol	6kg	6 Reps Set 1,		60 secs
				4 Reps Set 2. (Left	& Right	
				side)		
Part 2	KB Exercise		KB weight	Sets & Reps		Recovery
Ladders	Snatch		10kg,12kg	3 Sets: 1 Set = 10kg		60 Secs
				12kg x10 reps, 10kg x 12 reps,		
			01 401	12kg x 10reps. Tota	•	
	Bottom Up P	ress	8kg,10kg	3 Sets: 1 Set = 8kg	• · ·	
					10kg x10 reps, 8kg x 12 reps, 10kg x 10 reps. Total Reps: 40	
				1019 x 1016 p3. 10101 10 p3. 40		
	Pull over		8kg,10kg 3 Sets: 1 Set = 8kg x 12 r		x 12 ropo	60 Secs
			oky, iuky	10kg x10 reps, 8kg	•	00 3005
				10kg x 10 reps , 0kg	•	
	Full Bulgarian Get Up		8kg	8 Reps x 2 (Left & Right side) x		60 Secs
	g			3 Sets/Technical Re	0,	
			Quick Feet	Plyometrics		
Speed La	dder Drill	No. of Set	s No. of Reps	Rest	Intensity	
2 Feet In	2 Feet Out	2	6	60Secs	Anaerobic 90% MHR	
					<u> </u>	
Condition	ing				1	ntensity
Cross-	Full Body	1	Level 18	60 Secs Active	Aerobic 609	% MHR
			10 Mins x1 Recovery			
Trainer						
	session sees a	reduction in	the intensity and	number of each exer	cise, a strateg	y employed to
This last s				number of each exer eks efforts, also know		
This last s allow the	muscles to con	npensate for	the previous we		n as tapering.	I have reduced
This last s allow the the Sets f	muscles to con rom 3 to 2 and	npensate for increased th	the previous we he rep range but	eks efforts, also know	n as tapering. set is comple	I have reduced eted. (Reverse
allow the the Sets f Pyramid).	muscles to con rom 3 to 2 and Part 2 sees a	npensate for increased th reduction the	the previous we he rep range but e amount of KB u	eks efforts, also know they descend as each	n as tapering. set is comple overall amou	I have reduced eted. (Reverse int of reps per set
This last s allow the the Sets f Pyramid). I have inc	muscles to con rom 3 to 2 and Part 2 sees a orporated the F	npensate for increased th reduction the Full Pistol as	the previous we ne rep range but e amount of KB u a way of showin	eks efforts, also known they descend as each used thus reducing the	n as tapering. set is comple overall amou ave progresse	I have reduced eted. (Reverse int of reps per set ed and adapted
This last s allow the the Sets f Pyramid). I have inc well to the	muscles to con rom 3 to 2 and Part 2 sees a orporated the F e program. The	npensate for increased th reduction the Full Pistol as KB routine	the previous we ne rep range but e amount of KB u a way of showin was to be a smal	eks efforts, also known they descend as each used thus reducing the g the guys that they h	n as tapering. set is comple overall amou ave progresse am and to com	I have reduced eted. (Reverse int of reps per set. ed and adapted mpliment the

Implementing Periodized Programme: Tuesdays Session 2 & 6

Onsite Court Training

Warm Up	/arm Up 10 mins The Courtside Dynamic W			Dynamic Wa	arm Up
Type Basketball Court Tra	e Frequency Time 60 mins			Intensity Med- High	
Exercises		No. of Sets	No. of Reps	Rest	80% MHR
Speed Drill					Intensity
High Knee & Attack th 90º Quick Arms 20 Metre Dash	e Ground (Wall Assisted)	2 2 3	30 secs on 30 secs on A.I.a.i.t	120 Secs 120 Secs 120 Secs	Anaerobic 90% MHR
Mixed Plyometrics					
Single Leg, Box Jump Hurdles Double Leg B	2 2	6x2 9 Hurdles	120 Secs 120 Secs	Anaerobic 90% MHR	
Reaction Drill		ł			Intensity
Tennis Ball Drop Two Ball Dance Drop		2 2	10 x 2 10 x 2	60 Secs (Sets)	Aerobic 60% MHR
Agility Drill					
Diamond Cone Drill Four cone Coloured Drill		2 2	3 3	180 Secs 180 Secs	Anaerobic 90% MHR
Cool Down	10 -15 mins of stretching. (Using the stretches listed in bold *)				
paced and predominal	oduction to the onsite or basket htly uses the anaerobic, ATP ar ir speed endurance levels to he	nd CP energy	systems I will	be encourag	ing my

element of audio, visual, and cognitive conditioning to encourage stimulation of the neuromuscular pathways of the autonomic nervous system, the sympathetic, the parasympathetic nervous and the central nervous system, allowing skills to become almost autonomous in nature.

I will be working on the players ability to accelerate and decelerated quickly along with changing direction laterally and diagonally. This will involve short sprints working on a 5:1 ratio, i.e. sprint for 6 secs rest for 30+secs. They plyometric exercises are there to boost the strength of the lower limbs and improve the overall explosiveness of the muscle fibers' have brought in reaction drills at this time because we are close to competition and I feel it is necessary to break up the monotony of resistance training and all the anaerobic routines. We had a full turn out at today's session and I struggled to get through all the components in the allotted timeframe. I must now review how I explain the exercises just sticking to the essential teaching and safety points. Full attendance today, coach was happy.

A.I.a.i.t =As long as it takes

Michael Carolan

Implementing Periodized Programme: Tuesdays Sessions 10 & 14

Onsite Court Training

Warm Up	10 mins The Courtside Dynamic Warm Up				
Туре	FrequencyTimeTwice per Micro-cycle60 mins		-	Intensity Med- High	
Exercises	No. of Sets	No. of Reps	Rest	80% MHR	
Speed Drill				Intensity	
High Knee & Attack the Ground (Wall Assisted) 90º Quick Arms 20m Dash	2 2 3	45 secs on 45 secs on A.I.a.i.t	180secs 1800secs 180 secs	Anaerobic 80% MHR	
Mixed Plyometrics					
Single Leg, Box Jumps Hurdles Double Leg Bounding	3 3	6x2 9 Hurdles	120 Secs 120 Secs	Anaerobic 80% MHR	
Reaction Drill				Intensity	
Tennis Ball Drop Two Ball Dance Drop	3 3	10 x 2 10 x 2	60 Secs 60Secs	Aerobic 60% MHR	
Agility Drill					
Diamond Cone Drill Four cone Coloured Drill	2 2	3 3	180 Secs 180 Secs	Anaerobic 80% MHR	
Cool Down 10 -15 mins of stretching. (Using the stretches listed in bold *)					
Training today was good, but the guys looked a bit til	ed, so I decio	led to give ther	n an early nig	ght and	

Training today was good, but the guys looked a bit tired, so I decided to give them an early night and asked them to fill out a Profile of Mood State questionnaire, to have completed for next session. I'll be able to get an idea from the results on how the guys are coping with the regime and adjust it, if needed. These two sessions were progressed by changing the set amounts and time on for the speed drill exercises. All these are small increments, but they have a massive effect on the athlete, I don't want to overload them too much as technique begins to suffer and then injuries increase. So far there have been no significant injuries to any of the players which is an indicator that I have found a good balance of work intensity and recovery.

Implementing Periodized Programme: Tuesdays Session 18

Onsite Court Training

Warm Up 10 mins The Courtside Dynamic Wa			arm Up			
Type Basketball Court Training			Frequency Once per Micro-cycle		Intensity Med- High	
Exercises		No. of Sets	No. of Reps	Rest	85% MHR	
Speed Drills					Intensity	
High Knee & Attack the Ground (Wall Assisted) 90º Quick Arms 20m Dash			45 secs on 45 secs on A.I.a.i.t	180secs 180 Secs 180 secs	Anaerobic 85% MHR	
Mixed Plyometrics					Intensity	
Single Leg, Box Jumps Hurdles Double Leg Bounding		2 2	6x2 9 Hurdles	120 Secs 120 Secs	Anaerobic 85% MHR	
Reaction Drill					Intensity	
Tennis Ball Drop Two Ball Dance Drop	2 2	10 x 2 10 x 2	60 Secs 60Secs	Aerobic 60% MHR		
Agility Drill						
Diamond Cone Drill Four cone Coloured D	rill	1 1	3 3	180 Secs 180 Secs	Anaerobic 85% MHR	
Cool Down 10 -15 mins of stretching. (Using the stretches listed in bold *)						
This week sees a reduction in the intensity and number of each exercise, a strategy employed to allow						
the muscles to compensate for the previous weeks efforts, also known as tapering. It is worth noting that I						
have deliberately mixed the drills in all the on-site sessions to combine cognitive, visual and auditory						
signals or commands to encourage the athlete's development in these areas and build better						
neuromuscular pathways. No issues at training full attendance, results of the POMS questionnaire reveal						
that the sume are in second entities and explore well with the measurement of the measurements						

that the guys are in good spirits and coping well with the mesocycles demands.

Implementing Periodized Programme: Fridays Sessions 4 & 8

Onsite Court Training

arm Up 10 mins The Courtside Dynamic Wa				ırm Up
Type Basketball Court Training	FrequencyTimeTwice per Micro-cycle60 mins		Intensity Med- High	
Exercises	No. of Sets	No. of Reps	Rest	85% MHR
Speed Drills				Intensity
30m Dash from Athletic Stance Speed Ladders: One Step Drill to Lateral Two Step Drill Speed Ladders: 5 Hops & Run	2 1 1	1 4 4	180secs 120secs 120 secs	Anaerobic 90% MHR
Mixed Plyometrics				
Skater Hop & Lateral Run Hurdles Single Leg Bounding (R&L) Lateral Single Leg Bounding	2 2 2	6 x 2 6 Hurdles x2 6 Hurdles x2	120 Secs 120 Secs 120 Secs	Anaerobic 90% MHR
Reaction Drills				Intensity
Agility Single Ball Drop Closeout & Chop Agility Single Ball Drop (5m)	2 2	10 x 2 10 x 2	60 Secs 60Secs	Aerobic 60% MHR
Agility Drills				
Change of Direction Cone Drill Low Box 4 Cone Drill	1	2 4	180 Secs	Anaerobic 90% MHR
Medicine Ball				
Push Press 7kg 5kg Lob Deep Squat Overhead Pass	2 2 1	12 5 10	60 Secs 60 secs 60 Secs	LME
Cool Down10 -15 mins of stretching. (Using the stretches listed in bold *)				

Fridays session sees the introduction of medicine ball training as it closely represents the basketball and I can mimic some movement patterns using weight. Bearing in mind not to make it too heavy as that would likely pull the player out go proper alignment whilst motion. I have changed the type of drills to be worked to keep the athletes interested and motivated although they will achieve the same results as the Tuesday sessions. The overall attendance record of the team is incredibly good which is reflected in the manner in which they play too. The guys found this routine a little more enjoyable than the other court sessions. There was a bit more of a competitive nature in the group today. These sessions are still geared towards improving speed and agility, every time we do a drill it makes the neuromuscular pathway stronger so there is less time needed for the athlete to react to game situations. I deliberately made it a bit more technical.

Implementing Periodized Programme: Fridays Session 12 & 16

Onsite Court Training

Warm Up 10 mins The Courtside Dynamic Warm Up					arm Up
Type Basketball Court Training		Frequency Twice per Micro-cycle		Time 60 mins	Intensity Med- High
Exercises		No. of Sets	No. of Reps	Rest	85% MHR
Speed Drills					Intensity
30m Dash from Athletic Stance Speed Ladders: One Step Drill to Lateral Two Step Drill Speed Ladders: 5 Hops & Run		2 1 1	1 4 4	180secs 120secs 120secs	Anaerobic 90% MHR
Mixed Plyometrics					Intensity
Skater Hop & Lateral Run Hurdles Single Leg Bounding (R&L) Lateral Single Leg Bounding		2 2	6 x 2 6 Hurdles x2	120 Secs 120 Secs	Anaerobic 90% MHR
Reaction Drills					Intensity
Agility Single Ball Drop Closeout & Chop Agility Single Ball Drop (5m)		2 2	10 x 2 10 x 2	60 Secs 60Secs	Aerobic 60% MHR
Agility Drills					<u>.</u>
Change of Direction Cone Drill Low Box 4 Cone Drill		1 1	2 4	180 Secs	Anaerobic 90% MHR
Medicine Ball					
Push Press 7kg 5kg Lob Deep Squat Overhead		1 1 1	12 5 10	60 Secs 60 Secs 60 Secs	LME
Cool Down	10 -15 mins of stretching. (Usin	0			
	ded to keep the intensity and nu				•
	's are showing signs of fatigue.	•	•		•
U	er sessions because they were				
•	nake sure the athletes are well r	•	•		all
		(-) .			

workloads. The Closeout & Chop Agility Single Ball Drop (5m) drill has been a great way to teach the

guys about deceleration and chopping their feet to stop quickly, something they all learned quickly.

Implementing Periodized Programme: Fridays Session 20

Onsite Court Training

Warm Up 10 mins The Courtside Dynamic Warm L				
Type Basketball Court Training	Frequency Once per Micro-cycle		Time 60 mins	Intensity Med- High
Exercises		No. of Reps	Rest	90% MHR
Mixed Circuit Involvin	ng All: Do	ne for Time		·
Speed Drills				Intensity
30m Dash from Athletic Stance Speed Ladders: One Step Drill to Lateral Two Step Drill Speed Ladders: Hopscotch & Lateral Crossover	1 1 1	1 1 1	N/A	Anaerobic 90% MHR
Mixed Plyometrics				Intensity
Hurdles Single Leg Bounding Double Leg Bounding		6 Hurdles 6 Hurdles	N/A	Anaerobic 90% MHR
Reaction Drills			•	Intensity
Agility Single Ball Drop Closeout & Chop Agility Single Ball Drop (5m)	1	1	N/A	Aerobic 60% MHR
Agility Drills				
Diamond Cone Drill Wheel Cone Drill	1 1	1 1	N/A	Anaerobic 90% MHR
Medicine Ball				
Push Press 7kg Vertical Lob 5kg	1 1	10 1	N/A	Anaerobic 90% MHR
Cool Down10 -15 mins of stretching. (Usi	ing the str	etches listed in bo	old *)	
I thought as this was the last session in the Meso-cyc	cle I would	d make it fun and g	got the guys	to perform
the exercise in a circuit fashion laid out over the court	. It was a	timed event and t	he winner w	ould receive
no prize just bragging rights! It was a good way to end	d the train	ing sessions, with	spirits high.	

NCEF Implementing Periodized Programme

Footnotes

With all the above exercises, good technique and correct breathing are essential to provide maximum benefits and to protect you from injury. Some of the main safety points that I would like to employ: make sure you are using the correct weight for each exercise, always engage your core and maintain a neutral back i.e. straight body alignment from head to toe. Every movement should always be under full control and when it's not you should cease the exercise immediately. Always bend the knees when picking up any weight great or small. Each specific exercise carries its own risk and has individual teaching and safety points but if you follow the mentioned precautions you should avoid future problems or injury.

The team will concentrate on maintaining their Cardiovascular Endurance by using a treadmill or crosstrainer working at 60% of their MHR. The following workout routines are designed to be adaptable in numerous ways, i.e. time adjustments, weight increments, intensity etc. When it comes to the progression stage of the programme, I have various options at my disposal to increase the gain potential of the routines. Staying within the 5% ratio rule of progression will be essential to continued efforts from the team and their exercise adherence, as I don't want to overload them too much and cause burn out.

Skill development will come in the form of ballhandling, dribbling, shooting, passing and other skills used on the court. This is the concern of the coach my role is to provide the athletes with a sound base of strength and functional movement to perform to the best of their abilities.

I have used various Machine and Kettlebell (KB) resistance exercises, ranging in technical difficulty and intensities, to suit my team's abilities throughout the meso cycle. The program has been based on the principle that each workout must push the athletes, and create an overload effect. The main two variables have been the intensity and time/frequency, as the other is constant i.e. once per week and using kettlebells. Although the team members are individuals and have been tested for their respective 1 Rep Maximums (RM) they have similar ranges and I was able to work out an average weight range to suit everyone, I have based the subsequent weight variations on this.

As basketball is extremely explosive in nature I need my athletes to have a good aerobic capacity to be better equip them to deal with the repetitive anaerobic bouts of high intensity activity on the court. I have dedicated 2 sessions per micro cycle to train them in speed, agility, plyometrics, medicine ball drills and reaction drills with the intent of developing the players fast twitch muscle fibres and encouraging the intermediate muscle fibres to take on the same characteristics of the fast twitch muscle fibres. The idea is to improve each player first step explosiveness, to help them be better attackers and defenders.

I retested the athletes two days after their mesocycle ended and under the same conditions as the first test. This was done to measure any changes that might have occurred because of their efforts and the programming. The results speak for themselves. Every player showed improvements across the board without exception.

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Retest Comparative Results – Fitness Test/Assessment 2

Recording Results – Athlete 1- Fitness Test/Assessment 2						
Name of Fitness Test	Component Tested	Result	Post Programme Result			
20 metre MSFT	CV Endurance	11	13			
	Leg Strength & Power	21.5 inches	24.5 inches			
Vertical Jump Sprint Fatigue Test	Anaerobic Capacity	80 %	82 %			
T-Test		11.82 secs	02 /8 09.78 secs			
	Agility Coordination	41 catches				
Hand Eye Coordination Sit and Reach		15 cm	51 catches			
	Flexibility (Lower body)		21 cm			
Standing Stork Test	Balance	45secs	64secs			
One Minute Squat Test	Muscular Endurance (Lower Body)	51	76			
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	86 mm	74 mm			
Weight	Body Composition	74.6 kg	72.6 kg			
Record	ding Results – Athlete 2 - F	itness Test/Assessment Nu	mber 2			
Name of Fitness Test	Component Tested	Result	Post Programme Result			
20 metre MSFT	CV Endurance	12	14			
Vertical Jump	Leg Strength & Power	23.9 inches	27 inches			
Sprint Fatigue Test	Anaerobic Capacity	76 %	80 %			
T-Test	Agility	9.98 secs	9.23 secs			
Hand Eye Coordination	Coordination	33 catches	33 catches			
Sit and Reach	Flexibility (Lower body)	21 cm	28 cm			
Standing Stork Test	Balance	57secs	67secs			
One Minute Squat Test	Muscular Endurance (Lower Body)	46	71			
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	76 mm	70 mm			
Weight	Body Composition	68.7 kg	67.2 kg			
Record	ding Results – Athlete 3- Fi	tness Test/Assessment Nu	mber 2			
Name of Fitness Test	Component Tested	Result	Post Programme Result			
20 metre Beep Test	CV Endurance	10	13			
Vertical Jump	Leg Strength & Power	24.2 inches	28.3 inches			
Sprint Fatigue Test	Anaerobic Capacity	85 %	88 %			
T-Test	Agility	10.97 secs	9.67 secs			
Hand Eye Coordination Test	Coordination	22 catches	45 catches			
Sit and Reach	Flexibility (Lower body)	19 cm	24 cm			
Standing Stork Test	Balance	37 secs	54 secs			
One Minute Squat Test	Muscular Endurance (Lower Body)	39	62			
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	80 mm	73 mm			
Weight	Body Composition	79.5kg	76.5kg			

Name of Fitness Test	ang Results – Athlete 4- FI	11099 109//H22622006001					
	Recording Results – Athlete 4- Fitness Test/Assessment Number 2 Name of Fitness Test Component Tested Result Post Programme Result						
20 metre Beep Test	Component Tested	13	14				
Vertical Jump	Leg Strength & Power	26.3 inches	28.7 inches				
Sprint Fatigue Test	Anaerobic Capacity	81 %	83 %				
T-Test	Agility	10.55secs	09.85secs				
	Coordination						
Hand Eye Coordination		27 catches	39 catches				
Sit and Reach	Flexibility (Lower body)	16 cm	25 cm				
Standing Stork Test	Balance	43 secs	57 secs				
One Minute Squat Test	Muscular Endurance (Lower Body)	52	78				
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	69 mm	68 mm				
Weight	Body Composition	70.4 kg	71.6 kg				
Record	ding Results – Athlete 5- Fit	tness Test/Assessment N	Jumber 1				
Name of Fitness Test	Component Tested	Result	Post Programme Resu				
20 metre Beep Test	CV Endurance	9	11				
Vertical Jump	Leg Strength & Power	19.8 inches	21.7 inches				
Sprint Fatigue Test	Anaerobic Capacity	83 %	84 %				
T-Test	Agility	10.96 secs	10.11 secs				
Hand Eye Coordination	Coordination	36 catches	58 catches				
Sit and Reach	Flexibility (Lower body)	9 cm	19 cm				
Standing Stork Test	Balance	19 secs	33 secs				
One Minute Squat Test	Muscular Endurance (Lower Body)	44	51				
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	74 mm	68 mm				
Weight	Body Composition	80.4kg	76.8kg				
Record	ding Results – Athlete 6- Fi	tness Test/Assessment N	lumber 2				
Name of Fitness Test	Component Tested	Result	Post Programme Resu				
20 metre Beep Test	CV Endurance	8	10				
Vertical Jump	Leg Strength & Power	26.5 inches	27.9 inches				
Sprint Fatigue Test	Anaerobic Capacity	77%	79%				
T-Test	Agility	11.54 secs	10.74 secs				
Hand Eye Coordination	Coordination	32 catches	49 catches				
Sit and Reach	Flexibility (Lower body)	12 cm	18 cm				
Standing Stork Test	Balance	38 secs	43 secs				
One Minute Squat Test	Muscular Endurance (Lower Body)	39	55				
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	63 mm	60 mm				
Weight	Body Composition	72.5kg	73.4kg				

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Recording Results – Athlete 7- Fitness Test/Assessment Number 2						
Name of Fitness Test	Component Tested	Result				
20 metre Beep Test	CV Endurance	14	15			
Vertical Jump	Leg Strength & Power	27.6 inches	30 inches			
Sprint Fatigue Test	Anaerobic Capacity	83 %	86 %			
T-Test	Agility	10.23secs	09.47secs			
Hand Eye Coordination	Coordination	38 catches	54 catches			
Sit and Reach	Flexibility (Lower body)	23 cm	29 cm			
Standing Stork Test	Balance	25 secs	61secs			
One Minute Squat Test	Muscular Endurance (Lower Body)	41	67			
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	73 mm	69mm			
Weight	Body Composition	77.2kg	77.5kg			
Record	ding Results – Athlete 8- Fi	tness Test/Assessment Nu	mber 2			
Name of Fitness Test	Component Tested	Result	Post Programme Result			
20 metre Beep Test	CV Endurance	11.5	12			
Vertical Jump	Leg Strength & Power	25.8 inches	27.3 inches			
Sprint Fatigue Test	Anaerobic Capacity	80 %	83 %			
T-Test	Agility	12 secs	10.89 secs			
Hand Eye Coordination	Coordination	31 catches	49 catches			
Sit and Reach	Flexibility (Lower body)	11 cm	18.5 cm			
Standing Stork Test	Balance	11 secs	42 secs			
One Minute Squat Test	Muscular Endurance (Lower Body)	48	61			
Body Composition-Skin Folds (Sum of 7 sites)	Body Composition	89 mm	83 mm			
Weight	Body Composition	80.5kg	76.3kg			

The overall improvements made by all, has been as result of their hard work and dedication to the programme. They have exceeded my expectations and improved significantly in all areas especially their ratio of body fat to lean tissue and balance, which I didn't actively work on. The guys have all adhered to the programme well and have hit their training goals to increasing their speed, agility and speed endurance. Every one of them has increased their anaerobic endurance by at least 3% which is incredible given the time frame. The team has collectively improved their overall fitness but specifically their lower limb muscular endurance and strength, which is exactly what all good basketball players need. Each one has increased their scores on the Sit and Reach test already showing me that they have responded well to the flexibility training. Overall, I feel the programme was a huge success.

Evaluation & Conclusion

After the initial screening and procuration of the consent forms I found implementing this programme to be an enjoyable experience and one that the team had also enjoyed and had no trouble to adhering to. The only difficulty I had faced was in the preconception phases where I had to design and select specific exercises and exercise routines to best suit their needs, considering their individual fitness levels and personal and team goals. As we had limited time, I had way to amalgamate a lot of the components of fitness into one all-round workout, which also proved beneficial as they turned out to be quite versatile and effective. I learned that it was possible to use the warmup and cool down phases to integrate my flexibility programme which saved time.

As you have seen I have documented any of the progressions made at weeks 2 and 3 and rationale them, as to why I had chosen certain routines. Initially, I found that my main job was to guide and teach the guys correct technique, but after the first two weeks, they had excelled without much intervention. There were days that we all struggled with motivation, but I was always available to talk to the guys and I encouraged them regularly. As the guys persevered they said they felt stronger, calmer, clearer of mind and had more focus on the tasks at hand during the programme.

I also tried to educate the team on the many positive benefits that exercise, and good nutrition could have on you, not just in the sporting context but in a general one, from the reduced risk of heart disease to aiding in the regression of other degenerative diseases. Ultimately the programme was designed because of their fitness assessments results, the nature of the sport and its demands and the timing in the macrocycle. It was made up of sports specific exercises focusing on the major muscle groups of the legs to develop their overall playing abilities.

Throughout this programme I have learnt of the importance of progression and adaptations, using progressions in the form of increasing sets and rep numbers, decreasing recovery times between exercises and increasing the duration of stretch pose holds and their cycles. I have kept the weight of the Kettlebells and machinery to an average of 65% of the teams/individuals 1RM range. I have asked the guys to use equipment such as resistance bands as part of their own training routines as they are extremely cheap and versatile. By wave loading the programme on a weekly basis i.e. alternating the days of training and daily placement I maximised their results and delayed plateauing by keeping their body guessing to what's coming next. I asked the team to dedicate a full session of long hold (15-30 secs) stretching to develop their flexibility, especially their lower limbs, which paid off as all the guys increased their sit and reach scores by over 6cm.

Overall, doing this programme with the Bullets was a very positive and educating experience for all of us. I learned how to help people reach their goals and that it's not just about giving orders but listening to and working with them. It was brilliant to see the physical and psychological changes in each player over the five weeks, their confidence growing every day they trained and got closer to reaching their goals. The research and learning I have completed has been eye opening and I will build upon it. This is all the encouragement I need to fulfil my own long-term goals. I work as a fitness instructor and this course has thought me valuable lessons on how better to design and time manage my own group classes.

Michael Carolan

Coach Evaluation



DROGHEDA BULLETS BASKETBALL

To whom it may concern,

We at the Bullets found Michael to be an excellent coach with some fantastic qualities. He was always very polite and courteous to both ourselves and our players, and has won our respect. Michael was well organised throughout his time with us and planned his sessions like a professional. Regarding his abilities as a Strength and Conditioning Coach, I doubt that he will have trouble coaching any team at any level in any sport, if he puts his mind to it.

I have asked some of my team for their opinion on Michaels teaching style and they have all agreed that he was very effective but could do with being more direct, vocal and to the point when explaining the various aspects of his routines and drills. Overall, they agreed that he was a good instructor and showed plenty of promise. The only other negative that appeared in Michael, was that that he lacked self-belief and as a result his confidence wavered a little, he struggled at times to take control of the group, but he has improved over the duration he has spent with us.

Michael has shown himself to be an open, honest, conscientious, and hardworking individual. He also has great work ethic, adapting very well to new situations and consistently worked efficiently as part of a team. He is a forward focused thinker and can deal with issues before they arise, we also noted that he has a keen eye for detail with a strong awareness of end results which are vital traits to have if he wishes to continue as a Strength and Conditioning Coach. We would be happy to have Michael back at any stage to coach some of our other age groups if he wishes. He was a pleasure to work with and we wish him the best for his future endeavours.

Kind Regards: Uncharl J. (Head Coach)

DROGHEDA BULLETS BASKETBALL

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