# Coaching Middle-Distance and Distance Runners Science or Art? <br> <br> Vin Lananna 

 <br> <br> Vin Lananna}

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## Experiences at Dartmouth College

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## Sources of Information

Daniels' Running Formula

Author
Synopsis
Jack Daniels, Ph.D.
Daniels combines his coaching insights with his background as an Olympic athlete and exercise scientist to provide proven training programs and strategies for races. He outlines his four training phases and explains how to put them together in a program.

Once A Runner
Author
John L. Parker, Jr.
Synopsis
Many regard the story of Quenton Cassidy's battle to the top as the most accurate portrayal yet written of the tiny universe of world class runners. And it's a great source of training inspiration and wisdom as well.

Running Within
Author
Synopsis

Jerry Lynch
This text provides an in-depth look at the physiological and psychological aspects of running with strategies and tools for maximizing the mental side of performance.

## Middle-Distance and Distance Training Principles

1. Read Jack Daniels' book, Daniels' Running Formula.
2. Evaluate the fitness level of each athlete using heart rates on runs or on a treadmill.
3. Determine Date Pace (DP) and Goal Pace (GP) using previous PR's and the information available from the heart rate analysis.
4. Set time and place goals with the athlete.
5. Work back from the seasonal goal.
6. Write the season plan with the athlete.
7. Write the weekly plan and share it with the athlete.
8. Determine mileage goals and the dates to hit those targets.
9. Evaluate the progress using time trials, workouts, or races as your tools.
10. Stick with the intensity levels until there is an indication to change them due to performance.
11. Constantly update the workouts based on race performances.
12. Stick to the patterns on a yearly, seasonal, and biweekly routine.
13. Train hard and adjust volume, intensity, and/or recovery.
14. Use key workouts and compare them.
15. Always remain current and learn what the experts are doing.

## Definitions of Terminology

Cardiovascular Training

Training Run
Long Run
aerobic running with good mechanics; volume is consistent with the miles needed to hit weekly goals aerobic running with the volume equal to approximately $20-25 \%$ of weekly mileage

Anaerobic Threshold Training

Tempo Run
Cruise Intervals

Fartlek Training

V02 Max Training
V02 Max Intervals
repeated pre-determined intervals of 2:00-5:00 in duration with pre-determined recovery at a fast pace e.g., 4-6 x Mile at faster than 5000 m race pace with 2:00-5:00 recovery

Repetition Training
Repeats repeated pre-determined efforts of less than 2:00 in duration at a pace faster than goal pace with adequate to full recovery - e.g., $8 \times 300 \mathrm{~m}$ faster than current 1500 m time with $2: 00-2: 30$ jog recovery
Strides fast pace running of 6-12 $\times 20-30$ seconds of perfect form and adequate recovery

Running Workouts

- Cardiovascular (aerobic) running
- Anaerobic threshold training
- V02 Max interval training
- Repetitions

Supplemental Training

- Strength training
- Pool running, biking
- Stretching
- Nutrition
- Altitude training
- Massage therapy



## Patterns of Training

Championship Period
Event Category Workout Categories (in order of importance)

NOTE: Workout categories are often combined within the same session during this period.
5,000m / 10,000m V02 Max Intervals
Threshold Training
Repetitions

1500m / 5,000m V02 Max Intervals
800m / 1500m Repetitions
Repetitions
V02 Max Intervals

Race Preparation Period
Event Category Workout Categories (in order of importance)

| $5,000 \mathrm{~m} / 10,000 \mathrm{~m}$ | V02 Max Intervals | Threshold Training | Repetitions |
| :--- | :--- | :--- | :--- |
| $1500 \mathrm{~m} / 5,000 \mathrm{~m}$ | V02 Max Intervals | Threshold Training | Repetitions |
| $800 \mathrm{~m} / 1500 \mathrm{~m}$ | V02 Max Intervals | Repetitions | Threshold Training |

Conditioning Period

| Event Category | Workout Categories (in order of importance) |  |  |
| :--- | :--- | :--- | :--- |
| $5,000 \mathrm{~m} / 10,000 \mathrm{~m}$ | Aerobic Training | Threshold Training | Repetitions |
| $1500 \mathrm{~m} / 5,000 \mathrm{~m}$ | Aerobic Training | Threshold Training | Repetitions |
| $800 \mathrm{~m} / 1500 \mathrm{~m}$ | Aerobic Training | Threshold Training | Repetitions |

# Patterns of Training • Sample Workouts for 5000m / 10,000m Goal Pace: 13:20 / 27:50 

Conditioning Period ( 8 week cycle)
Date Pace: 13:45 / 28:30
Specific workouts are done primarily at 10kDP.

Training Runs and Long Runs
Sample Workouts

- Build mileage with aerobic conditioning runs of 45 minutes to 2 hours.

Threshold Training
Sample Workouts

- 8-10 mile pace run at approx. 4:55 / mile
- $4 \times 3000 \mathrm{~m}$ at AT (approx. 4:45 / mile) with 1:00 rest
- Ladder Workout:

2000m-1600m-1200m-800m-400m at approx. 4:30 / mile with 2000 m at 5:15 / mile in between intervals.

## Strides

Sample Workouts

- $8 \times 150 \mathrm{~m}$ at $85 \%$
- Progress over the cycle to $8 \times 100 \mathrm{~m}$ at $95 \%$

Race Preparation Period (8 week cycle)
Date Pace: 13:30 / 28:10
Specific workouts are done primarily at 10 KGP and 5 kDP .

V02 Max Interval Training
Sample Workouts

- $6 \times$ Mile at 5k Date Pace (approx. 4:24)
- $10 \times 1000 \mathrm{~m}$ at 5 k Date Pace

Threshold Training
Sample Workouts

- In the morning, run 5-6 miles at AT (approx. 4:45 / mile). In the afternoon, run a Repetition workout (see below).

Repetitions
Sample Workouts

- After running a Threshold workout in the morning (see above), run $8 \times 300 \mathrm{~m}$ at 1500 m Goal Pace in the afternoon.

Championship Period (Begins July 1)
Date Pace = Goal Pace: 13:20 / 27:50
Specific workouts are done primarily at 10 kGP , 5 kGP , and 3 kGP .

V02 Max Interval Training
Sample Workouts

- $4 \times$ Mile Breakdown at 5 k Goal Pace Minus 1 Second Per 400 m

$$
2 \times 800 \mathrm{~m}(2: 06), 4 \times 400 \mathrm{~m}(60)
$$

$$
2 \times 800 \mathrm{~m}(2: 06), 4 \times 400 \mathrm{~m}(60)
$$

- $4 \times 1000 \mathrm{~m}$ Breakdown at 1500 m Goal Pace

$$
500 \mathrm{~m}(1: 15)-300 \mathrm{~m}(45)-200 \mathrm{~m}(30)
$$

- $4 \times 800 \mathrm{~m}$ at $2: 06$

Threshold Training
Sample Workouts

- 5 miles at a quicker pace (approx. 5:00 / mile)


## Strides

Sample Workouts

- $8 \times 100 \mathrm{~m}$ at $95 \%$


## Patterns of Training • Sample Workouts for 1500m / 5000m Goal Pace: 3:35 / 13:20

Conditioning Period (8 week cycle)
Date Pace: 3:42 / 13:45
Specific workouts are done primarily at 5kDP.

Training Runs and Long Runs
Sample Workouts

- Build mileage with aerobic conditioning runs of 45 minutes to 2 hours.

Threshold Training
Sample Workouts

- 8 mile pace run at approx. 4:55 / mile
- $3-4 \times 3000 \mathrm{~m}$ at AT (approx. 4:45 / mile) with 1:00 rest
- Ladder Workout:

2000m-1600m-1200m-800m-400m at approx. 4:30 / mile with 2000 m at 5:15 / mile in between intervals.

## Strides

Sample Workouts

- $8 \times 150 \mathrm{~m}$ at $85 \%$
- Progress over the cycle to $8 \times 100 \mathrm{~m}$ at $95 \%$

Race Preparation Period (8 week cycle)
Date Pace: 3:39 / 13:30
Specific workouts are done primarily at 5 kGP and 1500 mDP .

V02 Max Interval Training
Sample Workouts

- $5 \times$ Mile at 5 k Date Pace (approx. 4:24)
- $8 \times 1000 \mathrm{~m}$ at 5 k Date Pace
- $5 \times$ Mile Breakdown at 5k Date Pace $1 \times$ Mile (4:24), $2 \times[2 \times 800 \mathrm{~m}(2: 11)]$, $2 \mathrm{x}[4 \times 400 \mathrm{~m}(65)]$

Threshold Training
Sample Workouts

- In the morning, run 5 miles at AT (approx. 4:45 / mile). In the afternoon, run a Repetition workout (see below).

Repetitions
Sample Workouts

- After running a Threshold workout in the morning (see above), run $8 \times 300 \mathrm{~m}$ at 1500 m Goal Pace in the afternoon.

Championship Period (Begins July 1)
Date Pace = Goal Pace: 3:35 / 13:20
Specific workouts are done primarily at $5 \mathrm{KGP}, 3 \mathrm{kGP}, 1500 \mathrm{mGP}$.

V02 Max Interval Training
Sample Workouts

- $4 \times 1000 \mathrm{~m}$ Breakdown of 1500 m Goal Pace Minus 1 Second Per 400m

$$
500 \mathrm{~m}(1: 12)-300 \mathrm{~m}(42.5)-200 \mathrm{~m}(28)
$$

- $5 \times 800 \mathrm{~m}$ at $2: 06$
- $4 \times 800 \mathrm{~m}$ Breakdowns

$$
2 \times 400 \mathrm{~m}(56) \text { or } 4 \times 200 \mathrm{~m}(27)
$$

Repetitions
Sample Workouts

- $8 \times 200 \mathrm{~m}$ (27-28)


# Patterns of Training • Sample Workouts for 800m / 1500m Goal Pace: 1:46 / 3:35 

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Conditioning Period (8 week cycle)
        Date Pace: 1:49 / 3:42
    Specific workouts are done primarily at 5 kDP .
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Training Runs and Long Runs
Sample Workouts

- Build mileage with aerobic conditioning runs of 45 minutes to 90 minutes.

Threshold Training
Sample Workouts

- 6 mile pace run at approx. 4:55 / mile
- $3 \times 3000 \mathrm{~m}$ at AT (approx. 4:45 / mile) with 1:00 rest
- Ladder Workout:

1600m-1200m-800m-400m at approx. 4:30 / mile with 2000 m at 5:15 / mile in between intervals

## Strides

Sample Workouts

- $8 \times 150 \mathrm{~m}$ at $85 \%$
- Progress over the cycle to $8 \times 100 \mathrm{~m}$ at $95 \%$

Race Preparation Period (8 week cycle)
Date Pace: 1:47 / 3:39
Specific workouts are done primarily at $3 \mathrm{KGP}, 1500 \mathrm{mDP}, 800 \mathrm{mDP}$.

V02 Max Interval Training
Sample Workouts

- $6-8 \times 1000 \mathrm{~m}$ at 5 k Date Pace
- 4.5 x Mile Breakdown at 3 k Date Pace $1 \times$ Mile (4:24), $2 \times 800 \mathrm{~m}(2: 11)$, $4 \times 400 \mathrm{~m}(65), 4 \times 400 \mathrm{~m}(65)$ $8 \times 200 \mathrm{~m}(31)$
- $5 \times 1000 \mathrm{~m}$ Breakdown at 1500 m Date Pace $500 \mathrm{~m}(1: 15)-300 \mathrm{~m}(44)-200 \mathrm{~m}(30)$

Repetitions
Sample Workouts

- $8 \times 200 \mathrm{~m}$ at 800 m Date Pace (27-28)
- $8 \times 300 \mathrm{~m}$ at 800 m Date Pace (41-42)

Threshold Training
Sample Workouts

- 4 miles at AT (approx. 4:45 / mile)

Championship Period (Begins July 1)
Date Pace = Goal Pace: 1:46 / 3:35
Specific workouts are done primarily at $1500 \mathrm{~m} G P$ and 800 mGP .

## Repetitions

Sample Workouts

- $8 \times 200 \mathrm{~m}$ at 800 m Goal Pace (26.5)
- $8 \times 300 \mathrm{~m}$ at 800 m Goal Pace (40)

V02 Max Interval Training
Sample Workouts

- $3 \times 1000 \mathrm{~m}$ Breakdown at 800 m Goal Pace $500 \mathrm{~m}(1: 10)-300 \mathrm{~m}(41)-200 \mathrm{~m}(28)$
- $4 \times 800 \mathrm{~m}$ Breakdown at 800 m Goal Pace $2 \times 400 \mathrm{~m}(53)$ or $4 \times 200 \mathrm{~m}$ (25)


## Pre-Conditioning Period

Pre-Conditioning Period (8 week cycle)

Emphasis in the Pre-Conditioning Period is placed on the following:

- Aerobic fitness
- Flexibility
- Strength development
- Injury prevention
- Hilly long runs
- Mileage buildup
- Developing good patterns of nutrition and sleeping
- Concentrate on the pace of the training runs using Daniels' formula

Running Workouts

Mon Training run
Tues Hilly training run ( $10-14 \mathrm{k}$ )
Wed Training run $+8 \times 100 \mathrm{~m}$ at 1500 mDP
Thur Training run
Fri Training run $+8 \times 300 \mathrm{~m}$ at 3000 mDP
Sat Long run (20-25\% of weekly mileage)
Sun Easy training run or day off
Mon Training run
Tues Hilly brisk run at controlled pace (8-12k)
Wed Training run $+8 \times 100 \mathrm{~m}$ at 1500 mDP
Thur Training run
Fri Training run
Sat Long run (20-25\% of weekly mileage)
Sun Easy training run or day off

Supplemental Training

Mon Weight Training
Tues Massage therapy after workout
Wed
Thur Weight Training
Fri
Sat
Sun
Mon
Tues Massage therapy after workout
Wed Weight Training
Thur
Fri Weight Training

Sat
Sun

|  | Running Workouts |  | Supplemental Training |
| :---: | :---: | :---: | :---: |
| Mon | Training run | Mon | Weight Training |
| Tues | Hilly training run (10-14k) | Tues | Massage therapy after workout |
| Wed | Training run $+8 \times 100 \mathrm{~m}$ at 1500mDP | Wed |  |
| Thur | Training run | Thur | Weight Training |
| Fri | Training run $+8 \times 300 \mathrm{~m}$ at 3000 mDP | Fri |  |
| Sat | Long run (20-25\% of weekly mileage) | Sat |  |
| Sun | Easy fraining run or day off | Sun | Weight Training |
| Mon | Training run | Mon |  |
| Tues | Hilly brisk run at controlled pace (8-12k) | Tues | Massage therapy after workout |
| Wed | Training run $+8 \times 100 \mathrm{~m}$ at 1500 mDP | Wed | Weight Training |
| Thur | Training run | Thur |  |
| Fri | Training run | Fri | Weight Training |
| Sat | Long run (20-25\% of weekly mileage) | Sat |  |
| Sun | Easy training run or day off | Sun |  |

## Planning the Patterns of Training

Identify Goal Paces for Primary Events

| $5,000 \mathrm{~m} / 10,000 \mathrm{~m}$ | $13: 20 / 27: 50$ |
| :--- | :--- |
| $1500 \mathrm{~m} / 5,000 \mathrm{~m}$ | $3: 35 / 13: 20$ |
| $800 \mathrm{~m} / 1500 \mathrm{~m}$ | $1: 46 / 3: 35$ |

Identify Date Paces for Primary Events
Date paces should be established through time trials or races.

Training Groups
Train all high level athletes together whenever possible.

Start With the Desired End-Result
Plan specific end-of-the-season workouts for each primary event.
Let's see what this might look like for our examples.

## Target Workouts for $5000 \mathrm{~m} / 10,000 \mathrm{~m}$ Goal Pace: 13:20 / 27:50

| Week 1 Beginning of Period | et Workouts End of Period | Week 1 Target Workouts Beginning of Period End of Period |  | Week 1 Beginning of Period | et Workouts End of Period |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ladder Workout (Intervals at 10kDP, Rest of AT +30 seconds) Volume $=14 \mathrm{k}$ | Ladder Workout in reverse (Intervals at 10kDP, RestatAT +30 seconds) | $6 \times$ Mile (5kDP) | $3 \times$ Mile (5kDP) + <br> $2 x$ Mile Breakdown (5kGP) | 4 xMile Breakdown (5kGP-1) | $\begin{aligned} & \text { 2x Mile Bracakdown (5kGP-1)+ } \\ & 2 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mGP}) \\ & \text { Volume }=5 \mathrm{k} \end{aligned}$ |
|  | Volume $=14 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=8 \mathrm{k}$ | Volume $=7 \mathrm{k}$ |  |
| $\begin{gathered} 4 \times 3000 \mathrm{~m}(\mathrm{AT}) \\ \text { Rest }=1: 00 \end{gathered}$ | $\begin{aligned} & 2 \times 3000 \mathrm{~m}(10 \mathrm{kDP})+ \\ & 3 \times \text { Mile (5kDP) } \end{aligned}$ | AM: 5 mile tempo run (AT) PM: $8 \times 300 \mathrm{~m}$ ( 1500 mGP ) | 4 miles (AT +20 seconds) + <br> $8 \times 400 \mathrm{~m}$ (5kDP) | $\begin{array}{r} 3 \times 1000 \mathrm{~m}(5 \mathrm{KGP})+ \\ 4 \times 800 \mathrm{~m}(5 \mathrm{kGP}-1) \end{array}$ | $800 \mathrm{~m} 15 \mathrm{kGP}-$ |
| Volume $=12 \mathrm{k}$ | Volume $=11 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=9 \mathrm{k}$ | Volume $=6 \mathrm{k}$ | lume $=4 \mathrm{k}$ |
| Week 2 Target WorkoutsBeginning of PeriodEnd of Period |  | Week 2 Target Workouts Beginning of Period End of Period |  | Week 2 Target Workouts Beginning of Period End of Period |  |
| Ladder Workout (same as Week 1) | $10 \times 1000 \mathrm{~m}$ (10kGP) | $8 \times 1000 \mathrm{~m}(5 \mathrm{kDP})$ | $\begin{aligned} & 4 \times 1000 \mathrm{~m}(5 \mathrm{kDP})+ \\ & 3 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mDP}) \\ & \text { Volume }=7 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 1000 \mathrm{~m}(5 \mathrm{kGP})+ \\ & 2 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mGP}) \\ & \text { Volume }=4 \mathrm{k} \end{aligned}$ | $4 \times 1000 \mathrm{~m}$ Breakdown (1500mGP) <br> Volume $=4 \mathrm{k}$ |
| Volume $=14 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=8 \mathrm{k} \quad$ Volume $=7 \mathrm{k}$ |  |  |  |
| $16 \times 400$ | $12 \times 400$ | $8 \times 400$ | $8 \times 400$ | $\begin{aligned} & 8 \times 400 \\ & (2 \times 10 \mathrm{kGP}-1,2 \times 5 \mathrm{kGP}, \\ & 2 \times 3 \mathrm{kGP-1,2} \mathrm{\times 1500mGP)} \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 8 \times 400 \\ & (2 \times 10 \mathrm{kGP}-\mathrm{l}, 2 \times 5 \mathrm{kGP}, \\ & 2 \times 3 \mathrm{kGP}-1,2 \times 1500 \mathrm{mGP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ |
| (4x 10kDP, $4 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{kDP}, 4 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{KGP}, 2 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{kGP}, 2 \times 5 \mathrm{kDP}$, |  |  |
| $\begin{aligned} & 4 \times 3 \mathrm{kGP}, 4 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=7 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 4 \times 3 \mathrm{kGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=5 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 3 \mathrm{kGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 3 \mathrm{KGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ |  |  |
| 8 Mile Pace Run (AT +15 seconds) Volume $=13 \mathrm{k}$ | 8 Mile Pace Run (AT +5 seconds) Volume $=13 \mathrm{k}$ | Race or Time Trial | Race | Race | Race |

Conditioning Period (8 week cycle)
Date Pace: 13:45 / 28:30
Specific workouts are done primarily at 10kDP.

Race Preparation Period (8 week cycle)
Date Pace: 13:30 / 28:10
Specific workouts are done primarily at 10 kGP and 5kDP.

Week 1 Target Workouts
Beginning of Period

Week 2 Target Workouts
Beginning of Period
Ladder Workout
(same as Week 1)
Volume $=14 \mathrm{k}$
$16 \times 400$
( $4 \times 10 \mathrm{kDP}, 4 \times 5 \mathrm{kDP}$,
$4 \times 3 \mathrm{kGP}, 4 \times 1500 \mathrm{mDP}$ )
Volume $=7 \mathrm{k}$
8 Mile Pace Run (AT +15 seconds) Volume $=13 \mathrm{k}$

End of Period
$10 \times 1000 \mathrm{~m}(10 \mathrm{kGP})$

8 Mile Pace Run (AT +5 seconds) Volume $=13 \mathrm{k}$

| Week 1 Beginning of Period | et Workouts End of Period | Week 1 Target Workouts Beginning of Period End of Period |  | Week 1 Beginning of Period | et Workouts End of Period |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ladder Workout (Intervals at 10kDP, Rest of AT +30 seconds) Volume $=14 \mathrm{k}$ | Ladder Workout in reverse (Intervals at 10kDP, RestatAT +30 seconds) | $6 \times$ Mile (5kDP) | $3 \times$ Mile (5kDP) + <br> $2 x$ Mile Breakdown (5kGP) | 4 xMile Breakdown (5kGP-1) | $\begin{aligned} & \text { 2x Mile Bracakdown (5kGP-1)+ } \\ & 2 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mGP}) \\ & \text { Volume }=5 \mathrm{k} \end{aligned}$ |
|  | Volume $=14 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=8 \mathrm{k}$ | Volume $=7 \mathrm{k}$ |  |
| $\begin{gathered} 4 \times 3000 \mathrm{~m}(\mathrm{AT}) \\ \text { Rest }=1: 00 \end{gathered}$ | $\begin{aligned} & 2 \times 3000 \mathrm{~m}(10 \mathrm{kDP})+ \\ & 3 \times \text { Mile (5kDP) } \end{aligned}$ | AM: 5 mile tempo run (AT) PM: $8 \times 300 \mathrm{~m}$ ( 1500 mGP ) | 4 miles (AT +20 seconds) + <br> $8 \times 400 \mathrm{~m}$ (5kDP) | $\begin{array}{r} 3 \times 1000 \mathrm{~m}(5 \mathrm{KGP})+ \\ 4 \times 800 \mathrm{~m}(5 \mathrm{kGP}-1) \end{array}$ | $800 \mathrm{~m} 15 \mathrm{kGP}-$ |
| Volume $=12 \mathrm{k}$ | Volume $=11 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=9 \mathrm{k}$ | Volume $=6 \mathrm{k}$ | lume $=4 \mathrm{k}$ |
| Week 2 Target WorkoutsBeginning of PeriodEnd of Period |  | Week 2 Target Workouts Beginning of Period End of Period |  | Week 2 Target Workouts Beginning of Period End of Period |  |
| Ladder Workout (same as Week 1) | $10 \times 1000 \mathrm{~m}$ (10kGP) | $8 \times 1000 \mathrm{~m}(5 \mathrm{kDP})$ | $\begin{aligned} & 4 \times 1000 \mathrm{~m}(5 \mathrm{kDP})+ \\ & 3 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mDP}) \\ & \text { Volume }=7 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 1000 \mathrm{~m}(5 \mathrm{kGP})+ \\ & 2 \times 1000 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mGP}) \\ & \text { Volume }=4 \mathrm{k} \end{aligned}$ | $4 \times 1000 \mathrm{~m}$ Breakdown (1500mGP) <br> Volume $=4 \mathrm{k}$ |
| Volume $=14 \mathrm{k}$ | Volume $=10 \mathrm{k}$ | Volume $=8 \mathrm{k} \quad$ Volume $=7 \mathrm{k}$ |  |  |  |
| $16 \times 400$ | $12 \times 400$ | $8 \times 400$ | $8 \times 400$ | $\begin{aligned} & 8 \times 400 \\ & (2 \times 10 \mathrm{kGP}-1,2 \times 5 \mathrm{kGP}, \\ & 2 \times 3 \mathrm{kGP-1,2} \mathrm{\times 1500mGP)} \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 8 \times 400 \\ & (2 \times 10 \mathrm{kGP}-\mathrm{l}, 2 \times 5 \mathrm{kGP}, \\ & 2 \times 3 \mathrm{kGP}-1,2 \times 1500 \mathrm{mGP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ |
| (4x 10kDP, $4 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{kDP}, 4 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{KGP}, 2 \times 5 \mathrm{kDP}$, | ( $2 \times 10 \mathrm{kGP}, 2 \times 5 \mathrm{kDP}$, |  |  |
| $\begin{aligned} & 4 \times 3 \mathrm{kGP}, 4 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=7 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 4 \times 3 \mathrm{kGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=5 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 3 \mathrm{kGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 2 \times 3 \mathrm{KGP}, 2 \times 1500 \mathrm{mDP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ |  |  |
| 8 Mile Pace Run (AT +15 seconds) Volume $=13 \mathrm{k}$ | 8 Mile Pace Run (AT +5 seconds) Volume $=13 \mathrm{k}$ | Race or Time Trial | Race | Race | Race |

Championship Period (Begins July 1)
Date Pace = Goal Pace: 13:20 / 27:50
Specific workouts are done primarily at 10kGP, 5kGP, and 3kGP.

# Target Workouts for 1500m / 5000m Goal Pace: 3:35 / 13:20 

Conditioning Period (8 week cycle)
Date Pace: 3:42 / 13:45
Specific workouts are done primarily at 5kDP.

Race Preparation Period (8 week cycle)
Date Pace: 3:39 / 13:30
Specific workouts are done primarily at 5 kGP and 1500 mDP .

Beginning of Period

| Ladder Workout <br> (Intervals ot 10kDP, | Ladder Workout in reverse <br> (Work upto 1600 m interval) |
| :---: | :--- |
| Rest of AT +30 seconds) | (same paces and rest) |
| Volume $=14 \mathrm{k}$ | Volume $=10 \mathrm{k}$ |
| $4 \times 3000 \mathrm{~m}$ (AT) | $1 \times 3000 \mathrm{~m}(10 \mathrm{kDP})+$ |
| Rest $=1: 00$ | $4 \times$ Mile $(5 \mathrm{kDPP})$ |
| Volume $=12 \mathrm{k}$ | Volume $=10 \mathrm{k}$ |

Beginning of Period

| Ladder Workout | $5 \times 1000 \mathrm{~m}(10 \mathrm{kGP})+$ |
| :--- | :--- |
| (same as Week 1) | $5 \times 1000 \mathrm{~m}(5 \mathrm{kDP})$ |

Volume $=14 \mathrm{k}$
$12 \times 400 \mathrm{~m}$ (2x 10kDP, $4 \times 5 \mathrm{kDP}$, 4x3kGP,2x 1500mDP) Volume $=5 \mathrm{k}$

8 Mile Pace Run (AT +15 seconds) Volume $=1 \mathrm{lk}$

Week 1 Target Workouts

Week 2 Target Workouts
End of Period

| Week 1 Target Workouts |  |
| :---: | :---: |
| Beginning of Period | End of Period |
| 5xMile (5kDP) | $2 x$ Mile (5kDP) + <br> $3 x$ Mile Breakdown (5kGP) |
| Volume $=8 \mathrm{k}$ | Volume $=8 \mathrm{k}$ |
| AM: 5 mile temporun (AT) | 4 miles (AT+20 seconds) + |
| PM: $8 \times 300 \mathrm{~m}$ (1500mGP) | $8 \times 300 \mathrm{~m}$ (1500mDP) |
| Volume $=10 \mathrm{k}$ | Volume $=8 \mathrm{k}$ |

Week 2 Target Workouts
Beginning of Period End of Period

| $5 \times 1000 \mathrm{~m}(5 \mathrm{kDP})+$ | $4 \times 1000 \mathrm{~m}$ (5kDP) + |
| :--- | :--- |
| $3 \times 1000 \mathrm{~m}$ Breakdown | $3 \times 1000 \mathrm{~m}$ Breakdown |
| (1500mDP) | $(1500 \mathrm{mDP})$ |
| Volume $=8 \mathrm{k}$ | Volume $=7 \mathrm{k}$ |
| $8 \times 400 \mathrm{~m}$ | $4 \times 400 \mathrm{~m}(5 \mathrm{kGP}, 3 \mathrm{kGP})+$ |
| $(2 \times 5 \mathrm{kDP}, 2 \times 5 \mathrm{kGP}$ | $4 \times 300 \mathrm{~m}$ |
| $2 \times 3 \mathrm{kGP}, 2 \times 1500 \mathrm{mDP})$ | $(1500 \mathrm{mGP}-1,1500 \mathrm{mGP}-2)$ |
| Volume $=3 \mathrm{k}$ | Volume $=3 \mathrm{k}$ |

Championship Period (Begins July 1)
Date Pace = Goal Pace: 3:35 / 13:20
Specific workouts are done primarily at $5 \mathrm{KGP}, 3 \mathrm{kGP}, 1500 \mathrm{mGP}$.

| Week 1 Target Workouts |  |
| :--- | :--- |
| End of Period |  |

# Target Workouts for 800m / 1500m Goal Pace: 1:46 / 3:35 

Conditioning Period (8 week cycle)
Date Pace: 1:49 / 3:42
Specific workouts are done primarily at 5kDP.
Week 1 Target Workouts
Beginning of Period

| Ladder Workout | Ladder Workout in reverse |
| :---: | :---: |
| (Start of 1600 m interval) | (Work up to $1600 \mathrm{~m} \mathrm{interval)}$ |
| ( $5 \mathrm{kDP}, \mathrm{AT}+30$ seconds) | (same paces and rest) |
| Volume $=10 \mathrm{k}$ | Volume $=10 \mathrm{k}$ |
| $3 \times 3000 \mathrm{~m}$ (AT) | $1 \times 3000 \mathrm{~m}$ (10kDP) + |
| Rest $=1: 00$ | $3 x$ Mile (5kDP) |
| Volume $=9 \mathrm{k}$ | Volume $=8 \mathrm{k}$ |

Week 2 Target Workouts
Beginning of Period

| Beginning of Period | End of Period |
| :--- | :--- |
| Ladder Workout | $5 \times 1000 \mathrm{~m}(10 \mathrm{kGP})+$ |
| (same as Week 1 ) | $5 \times 1000 \mathrm{~m}(5 \mathrm{kDPP})$ |
| Volume $=10 \mathrm{k}$ |  |
| $12 \times 400 \mathrm{~m}$ | Volume $=10 \mathrm{k}$ |
| $(2 \times 5 \mathrm{kDP}, 4 \times 5 \mathrm{kGP}$, | $8 \times 400 \mathrm{~m}$ |
| $4 \times 3 \mathrm{kDP}, 2 \times 1500 \mathrm{mDP})$ | $(2 \times 5 \mathrm{kDP}, 2 \times 3 \mathrm{kDP}$, |
| Volume $=5 \mathrm{k}$ | $2 \times 3 \mathrm{kGP}, 2 \times 150 \mathrm{mDP})$ |
| 6 Mile Pace Run | Volume $=3 \mathrm{k}$ |
| (AT +15 seconds $)$ | 5 Mile Pace Run |
| Volume $=10 \mathrm{k}$ | (AT +5 seconds) |
|  | Volume $=8 \mathrm{k}$ |

## Race Preparation Period (8 week cycle)

Date Pace: 1:47 / 3:39
Specific workouts are done primarily at $3 \mathrm{kGP}, 1500 \mathrm{mDP}, 800 \mathrm{mDP}$.

| Week 1 Target WorkoutsEnd of Period |  | Week 1 Target Workouts  <br> End of Period  |  |
| :---: | :---: | :---: | :---: |
| $3 x$ Mile (3kDP) + <br> 3x Mile Breakdown (3kGP) | 4x Mile Breakdown (3kGP) |  |  |
| Volume $=8 \mathrm{k}$ | Volume $=7 \mathrm{k}$ | Volume $=5 \mathrm{k}$ | Volume $=4 \mathrm{k}$ |
| AM: 4 miles (AT +20 seconds) PM: $8 \times 300 \mathrm{~m}(1500 \mathrm{mGP})$ Volume $=8 \mathrm{k}$ | 3 miles (AT +20 seconds) + <br> $8 \times 300 \mathrm{~m}$ ( 1500 mDP ) <br> Volume $=7 \mathrm{k}$ | $4 \times 800 \mathrm{~m}$ Breakdown ( 800 mGP ) Volume $=3 \mathrm{k}$ | $8 \times 300 \mathrm{~m}$ ( 800 mGP ) <br> Volume $=2.5 \mathrm{k}$ |
| Week 2 Target Workouts Beginning of Period End of Period |  | Week 2 Target Workouts Beginning of Period End of Period |  |
| $\begin{aligned} & 2 \times 1000 \mathrm{~m}(3 \mathrm{kGP})+ \\ & 4 \times 100 \mathrm{~m} \text { Breakdown } \\ & (1500 \mathrm{mDP}) \\ & \text { Volume }=6 \mathrm{k} \end{aligned}$ | $5 \times 1000 \mathrm{~m}$ Breakdown ( 1500 mDP ) <br> Volume $=5 \mathrm{k}$ | $4 \times 1000 \mathrm{~m}$ Breakdown ( 1500 mGP ) <br> Volume $=4 \mathrm{k}$ | $3 \times 1000 \mathrm{~m}$ Breakdown ( 800 mGP ) <br> Volume $=3 \mathrm{k}$ |
| $\begin{aligned} & 4 \times 400 \mathrm{~m}(3 \mathrm{kDP}, 3 \mathrm{kGP})+ \\ & 4 \times 300 \mathrm{~m} \\ & (1500 \mathrm{mDP}, 1500 \mathrm{mGP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 4 \times 400 \mathrm{~m}(3 \mathrm{kDP}, 3 \mathrm{kGP})+ \\ & 4 \times 300 \mathrm{~m} \\ & (1500 \mathrm{mDP}, 1500 \mathrm{mGP}) \\ & \text { Volume }=3 \mathrm{k} \end{aligned}$ | $\begin{aligned} & 4 \times 400 \mathrm{~m}(3 \mathrm{kDP}, 3 \mathrm{kGP})+ \\ & 4 \times 200 \mathrm{~m} \\ & (1500 \mathrm{mGP}-1,800 \mathrm{mGP}) \end{aligned}$ $\text { Volume }=2.5 \mathrm{k}$ | $\begin{aligned} & 4 \times 300 \mathrm{~m}(3 \mathrm{KGP}, 1500 \mathrm{mGP})+ \\ & 4 \times 200 \mathrm{~m} \\ & (1500 \mathrm{mGP}-1,800 \mathrm{mGP}) \\ & \text { Volume }=2.5 \mathrm{k} \end{aligned}$ |
| Race or Time Trial | Race | Race | Race |

## Summary of End-of-the-Season Target Workouts

Championship Period (Begins July 1)
5,000m/10,000m
Date Pace $=$ Goal Pace: 13:20 / 27:50
Specific workouts are done primarily at 10 kGP , 5 kGP , and 3 kGP .

| Week 1 Target Workouts |  |
| :---: | :---: |
| Beginning of Period | End of Period |
| 4 x Mile Breakdown (5kGP-1) | $2 \times$ Mile Breakdown (5kGP-1)+ |
|  | $2 \times 1000 \mathrm{~m}$ Breakdown |
|  | (1500mGP) |
| Volume $=7 \mathrm{k}$ | Volume $=5 \mathrm{k}$ |
| $3 \times 1000 \mathrm{~m}$ ( 5 KGP ) + | $5 \times 800 \mathrm{~m}$ (5kGP-1) |
| $4 \times 800 \mathrm{~m}$ (5KGP-1) |  |
| Volume $=6 \mathrm{k}$ | Volume $=4 \mathrm{k}$ |

Week 2 Target Workouts
Beginning of Period End of Period

| $2 \times 1000 \mathrm{~m}(5 \mathrm{kGP})+$ | $4 \times 1000 \mathrm{~m}$ Breakdown |
| :--- | :--- |
| $2 \times 1000 \mathrm{~m}$ Breakdown | $(1500 \mathrm{mGP})$ |
| $(1500 \mathrm{mGP})$ |  |
| Volume $=4 \mathrm{k}$ | Volume $=4 \mathrm{k}$ |
| $8 \times 400$ | $8 \times 400$ |
| $(2 \times 10 \mathrm{kGP}-1,2 \times 5 \mathrm{kGP}$ | $(2 \times 10 \mathrm{kGP}-1,2 \times 5 \mathrm{kGP}$, |
| $2 \times 3 \mathrm{kCP}-1,2 \times 1500 \mathrm{mGP})$ | $2 \times 3 \mathrm{kGP}-1,2 \times 1500 \mathrm{mGP})$ |
| Volume $=3 \mathrm{k}$ | Volume $=3 \mathrm{k}$ |
| Race | Race |

Championship Period (Begins July 1) $1500 \mathrm{~m} / 5,000 \mathrm{~m}$
Date Pace = Goal Pace: 3:35 / 13:20
Specific workouts are done primarily at $5 \mathrm{kGP}, 3 \mathrm{kGP}, 1500 \mathrm{mGP}$.

| Week 1 Target Workouts |  |
| :---: | :---: |
| Beginning of Period | End of Period |
| 3xMile Breakdown (5kGP-1) + | $1 \times$ Mile Breakdown (5kGP-1)+ |
| $2 \times 1000 \mathrm{~m}$ Breakdown | $3 \times 1000 \mathrm{~m}$ Breakdown |
| (1500mGP) | (1500mGP) |
| Volume $=7 \mathrm{k}$ | Volume $=5 \mathrm{k}$ |
| $4 \times 800 \mathrm{~m}$ (5kGP- I ) | $4 \times 800 \mathrm{~m}$ (5kGP-1) |
| Volume $=3 \mathrm{k}$ | Volume $=3 \mathrm{k}$ |
| Week 2 Target Workouts |  |
| Beginning of Period | End of Period |
| $4 \times 1000 \mathrm{~m}$ Breakdown (1500mGP) | 4x 1000m Breakdown (1500mGP) |
| Volume $=4 \mathrm{k}$ | Volume $=4 \mathrm{k}$ |
| $4 \times 400 \mathrm{~m}$ (5kGP, 3kGP) + | $4 \times 400 \mathrm{~m}$ (5kGP, 3kGP) + |
| 4x300m | $4 \times 200 \mathrm{~m}$ |
| (1500mGP-1, 1500mGP-2) | (1500mGP-1, 1500mGP-2) |
| Volume $=3 \mathrm{k}$ | Volume $=2.5 \mathrm{k}$ |
| Race | Race |

Championship Period (Begins July 1) 800m / 1500m
Date Pace = Goal Pace: 1:46 / 3:35
Specific workouts are done primarily at 1500 mGP and 800 mGP .

| Week 1 Target Workouts |  |
| :--- | :--- |
| End of Period |  |

Week 2 Target Workouts
Beginning of Period

End of Period

| $4 \times 1000 \mathrm{~m}$ Breakdown <br> $(1500 \mathrm{mGP})$ | $3 \times 1000 \mathrm{~m}$ Breakdown <br> $(800 \mathrm{mGP})$ |
| :--- | :--- |
| Volume $=4 \mathrm{k}$ |  |
| $4 \times 400 \mathrm{~m}(3 \mathrm{kDP}, 3 \mathrm{kGP})+$ | $4 \times 300 \mathrm{~m}(3 \mathrm{kGP}, 1500 \mathrm{mGP})+$ |
| $4 \times 200 \mathrm{~m}$ | $4 \times 200 \mathrm{~m}$ |
| $(1500 \mathrm{mGP}-1,800 \mathrm{mGP})$ | $(1500 \mathrm{mGP}-1,800 \mathrm{mGP})$ |
| Volume $=2.5 \mathrm{k}$ | Volume $=2.5 \mathrm{k}$ |
| Race | Race |

# Sample 2-Week Cycles for $5000 \mathrm{~m} / 10,000 \mathrm{~m}$ Goal Pace: 13:20 / 27:50 

Conditioning Period (8 week cycle)
Date Pace: 13:45 / 28:30
Specific workouts are done primarily at 10kDP.

| Mon | Training run |
| :--- | :--- |
| Tues | $2000 \mathrm{~m}-1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Wed | Training run |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | $4 \times 3000 \mathrm{~m}(4: 45 / \mathrm{mile})$; rest $=1: 00$ |
|  |  |
| Sat | Long run |
| Sun | Training run |
|  |  |
| Mon | $2000 \mathrm{~m}-1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Tues | Training run |
| Wed | $16 \times 400 \mathrm{~m}(4 \times 67,4 \times 65,4 \times 63,4 \times 61)$ |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | Easy run |
| Sat | 8 mile pace run $(4: 55 / \mathrm{mile})$ |
| Sun | Long run |

Race Preparation Period (8 week cycle)<br>Date Pace: 13:30 / 28:10<br>Specific workouts are done primarily at 10 KGP and 5kDP.

| Mon | Training run |
| :--- | :--- |
| Tues | $6 \times$ Mile (4:24); rest $=3: 00$ |
|  |  |
| Wed | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Thur | Training run |
| Fri | AM: 5 mile tempo run (4:45/mile) |
|  | PM: $8 \times 300 \mathrm{~m}(45)$ |
| Sat | Long run |
| Sun | Easy |
|  |  |
| Mon | $8 \times 1000 \mathrm{~m}(4: 24 /$ mile $)$; rest $=2: 00$ |
|  |  |
| Tues | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Wed | $8 \times 400 \mathrm{~m}(2 \times 67,2 \times 65,2 \times 63,2 \times 61)$ |
| Thur | Training run |
| Fri | Easy run |
| Sat | Race |
| Sun | Long run |

Championship Period (Begins July 1)
Date Pace = Goal Pace: 13:20 / 27:50
Specific workouts are done primarily at $10 \mathrm{KGP}, 5 \mathrm{kGP}$, and 3 kGP .

| Mon | Training run |
| :---: | :---: |
| Tues | 4 x Mile Breakdown (5k Goal Pace - 1) <br> ( $2 \times 800 \mathrm{~m}, 2 \times 800 \mathrm{~m}, 4 \times 400 \mathrm{~m}, 4 \times 400 \mathrm{~m}$ ) |
| Wed | Training run $+8 \times 100 \mathrm{~m}$ (95\%) |
| Thur | Training run |
| Fri | $5 \times 800 \mathrm{~m}$ ( 5 k Goal Pace - $1=2: 06$ ) or Race |
| Sat | Long run |
| Sun | Easy |
| Mon | 4x 1000 m Breakdown ( 1500 m Goal Pace) [500m (1:15)-300m (45)-200m (30)] |
| Tues | Training run $+8 \times 100 \mathrm{~m}$ (95\%) |
| Wed | $8 \times 400 \mathrm{~m}(2 \times 66,2 \times 64,2 \times 62,2 \times 60)$ |
| Thur | Training run |
| Fri | Easy run |
| Sat | Race |
| Sun | Long run |

# Sample 2-Week Cycles for 1500m / 5000m Goal Pace: 3:35 / 13:20 

Conditioning Period (8 week cycle)
Date Pace: 3:42 / 13:45
Specific workouts are done primarily at 5 kDP .

| Mon | Training run |
| :--- | :--- |
| Tues | $2000 \mathrm{~m}-1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Wed | Training run |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | $4 \times 3000 \mathrm{~m}(4: 45 / \mathrm{mile})$; rest $=1: 00$ |
|  |  |
| Sat | Long run |
| Sun | Training run |
|  |  |
| Mon | $2000 \mathrm{~m}-1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Tues | Training run |
| Wed | $12 \times 400 \mathrm{~m}(2 \times 67,4 \times 65,4 \times 63,2 \times 61)$ |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | Easy run |
| Sat | 8 mile pace run (4:55/mile) |
| Sun | Long run |

Race Preparation Period (8 week cycle)<br>Date Pace: 3:39 / 13:30<br>Specific workouts are done primarily at 5 kGP and 1500 mDP .

| Mon | Training run | Mon | Training run |
| :--- | :--- | :--- | :--- |
| Tues | $2 \times$ Mile (4:24) $+3 \times$ Mile Breakdown | Tues | $3 \times$ Mile Breakdown (5k Goal Pace - 1$)+$ |
|  | (2x8000m, 4x400m, 4x400m) |  | $2 \times 1000 \mathrm{~m}$ Breakdown (1500m Goal Pace) |

# Sample 2-Week Cycles for 800m / 1500m Goal Pace: 1:46 / 3:35 

# Conditioning Period (8 week cycle) <br> Date Pace: 1:49 / 3:42 <br> Specific workouts are done primarily at 5 kDP . 

| Mon | Training run |
| :--- | :--- |
| Tues | $1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Wed | Training run |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | $3 \times 3000 \mathrm{~m}(4: 45 / \mathrm{mile})$; rest $=1: 00$ |
|  |  |
| Sat | Long run |
| Sun | Training run |
|  |  |
| Mon | $1600 \mathrm{~m}-1200 \mathrm{~m}-800 \mathrm{~m}-400 \mathrm{~m}$ |
|  | (4:30/mile); rest $=2000 \mathrm{~m}(5: 15 / \mathrm{mile})$ |
| Tues | Training run |
| Wed | $12 \times 400(2 \times 67,4 \times 65,4 \times 63,2 \times 61)$ |
| Thur | Training run $+8 \times 150 \mathrm{~m}(85 \%)$ |
| Fri | Easy run |
| Sat | 6 mile pace run (4:55/mile) |
| Sun | Long run |

## Race Preparation Period (8 week cycle)

Date Pace: 1:47 / 3:39
Specific workouts are done primarily at 3 kGP , 1500 mDP , 800 mDP .

| Mon | Training run |
| :--- | :--- |
| Tues | $5 \times$ Mile Breakdown (3k Date Pace) |
|  | $2 \times(2 \times 800 \mathrm{~m}), 2 \times(4 \times 400 \mathrm{~m}), 8 \times 200 \mathrm{~m}$ |
| Wed | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Thur | Training run |
| Fri | AM: 4 mile quick run (5:00/mile) |
|  | PM: $8 \times 300 \mathrm{~m}(1500 \mathrm{~m}$ Goal Pace) |
| Sat | Long run |
| Sun | Easy |
|  |  |
| Mon | $5 \times 1000 \mathrm{~m}$ Breakdown (1500m Date Pace) |
|  | (500m-300m-200m) |
| Tues | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Wed | $4 \times 400 \mathrm{~m}(2 \times 55,2 \times 63)+4 \times 300 \mathrm{~m}(2 \times 44,2 \times 43)$ |
| Thur | Training run |
| Fri | Easy run |
| Sat | Race |
| Sun | Long run |

## Championship Period (Begins July 1)

Date Pace = Goal Pace: 1:46 / 3:35
Specific workouts are done primarily at 1500 mGP and 800 mGP .

| Mon | Training run |
| :--- | :--- |
| Tues | $5 \times 1000 \mathrm{~m}$ Breakdown ( 1500 m Goal Pace) |
|  | (500m-300m-200m) |
| Wed | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Thur | Training run |
| Fri | $4 \times 800 \mathrm{~m}$ Breakdown ( 800 m Goal Pace) |
|  | or Race |
| Sat | Long run |
| Sun | Easy |
|  |  |
| Mon | $3 \times 1000 \mathrm{~m}$ Breakdown (800m Goal Pace) |
|  | (500m-300m-200m) |
| Tues | Training run $+8 \times 100 \mathrm{~m}(95 \%)$ |
| Wed | $4 \times 400 \mathrm{~m}(2 \times 64,2 \times 62)+4 \times 200 \mathrm{~m}(2 \times 28,2 \times 27)$ |
| Thur | Training run |
| Fri | Easy run |
| Sat | Race |
| Sun | Long run |

# Coaching Middle-Distance and Distance Runners Science or Art? <br> <br> Vin Lananna 

 <br> <br> Vin Lananna}

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