Nordiq Canada offers a series lesson plans for training adult recreational/fitness skiers in the classic technique with an emphasis on technical efficiency and application towards building greater personal ski capacity and community competition readiness (Loppet participation/racing). This delivery of this plan is consistent with the coaching competencies acquired through the Train-to-Train workshop.

The presumption is that skiers will be familiar with the different classic techniques and possess a foundational ski competency (diagonal stride, climbing, descending) as addressed in the Development lesson plan series.
!Attention! - Please note that the efforts/intensities suggested within the following session plans should be adapted to the fitness and capacities of the group and individual participants. Anaerobic repetitions/workouts are not recommended for master skiers.

## Session 1

| Session Objectives | Optimizing energy output <br> - Refining power position and balance <br> - Getting the best return on effort <br> Understanding pacing <br> - Identifying and feeling sustainable efforts |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Practice Plan |  |  |  |  |
|  | Outcome | Terrain | Drill suggestions | Duration (approximate) |
| Warm-up | Raising body temperature, activation of muscles <br> Mobility, increasing range of motion | Easy trail/area <br> Flat transitioning into incline (max. 6\% grade), $30-45$ secs in length | Easy ski <br> One Skate to Offset at easy effort <br> *Encouraging greater range of motion and transition between techniques. | 10 mins <br> 10 mins |


| Skill Development <br> Power position and <br> Power line | Moving the Centre of Mass <br> (COM) forward, reducing <br> vertical movement | Flat trail/area | Review \& demonstration of <br> Power position and Power <br> line for One Skate and <br> Offset <br> *may want to review Power <br> position, Power line \& Timing for <br> Double Pole before continuing into <br> One Skate <br> Acceleration Drill I <br> Over 50-75m, skiers should <br> continuously accelerate down the <br> track performing One Skate, only <br> reaching top speed at the end. <br> Return using Offset <br> Acceleration Drill II <br> As per above, however skiers <br> should be encouraged to only <br> perform One Skate while <br> maintaining rhythm with <br> increasing speed. <br> Return using Offset |
| :--- | :--- | :--- | :--- | :--- |


| Fitness Development | Pacing <br> Understanding how Rate of Perceived Effort (RPE) and rate of respiration act as indicators to applying effective effort | Moderate climb <br> Skiers should be able to One Skate throughout | Pyramid Challenge <br> 2 sets of variation of: 15 secs, 30 secs, 60 secs, 90 secs, 60 secs, 30 secs, 15 secs. <br> Rest between repetitions is time required to return to start. <br> 3-5 mins rest between sets <br> 15 sec start is to encourage skiers to start (a bit too) fast and settle into appropriate pace identifying speed, sensation and breathing cures. <br> *Skiers are reminded to go at their own appropriate pace/effort. Framed as a personal challenge. <br> Skiers are encouraged to find the consistent effort/pace that they can maintain for all repetitions. | 30 mins |
| :---: | :---: | :---: | :---: | :---: |
| Wrap-up | Understanding training benefits of long \& fast efforts. |  | Review cues and importance of respect personal capacity/pace | 5 mins |

## Session 2

| Session Objectives | The importance of the timing of movements <br> - Phases of technique <br> - Developing greater speed of movement <br> - Developing more effective application of force |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Practice Plan |  |  |  |  |
|  | Outcome | Terrain | Drill suggestions | Duration (approximate) |


| Warm-up | Raising body temperature, activation of muscles <br> Mobility, increasing range of motion | Easy trail/area <br> Flat trail/area | Easy ski <br> Slow motion skiing <br> (technique of choice) <br> *Focus on the phases of movement, provide cue for each phase (break down each phase: reposition phase, power position and pole plant, etc...) | 10 mins 15 mins |
| :---: | :---: | :---: | :---: | :---: |
| Skill Development <br> Power position and Power line | Moving the Centre of Mass (COM) forward, reducing vertical movement <br> Developing speed of motion | Flat trail/area <br> Flat or undulating terrain | Explanation \& demonstration of power position and power line for Two Skate <br> Acceleration Drill I <br> Over 50-75m, skiers should continuously accelerate down the track performing Two Skate, only reaching top speed at the end. <br> Speed Zones <br> Skiers ski incrementally faster in each segment of a loop, no faster than fastest speed they can maintain synchrony and coordination. | 10 mins <br> 10 mins <br> 10 mins |
| Fitness Development | Threshold | Variable loop 500-1000m | Cadence Ski <br> Skiers ski a 500-1000m loop, $3-4 x$ at a cadence quicker than their normal/comfortable default tempo <br> Rest between reps according to feeling <br> *To the range of motion relative to speed. Relationship between endurance and muscular force | 30 mins |


| Wrap-up | Review on how retaining <br> momentum can be <br> impacted by cadence |  | 5 mins |
| :--- | :--- | :--- | :--- | :--- |

## Session 3

| Session Objectives | Descending comfortably <br> - Maintaining Athletic posture/position in descending <br> - Step turns <br> - Choosing lines <br> - Being around other skiers |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Practice Plan |  |  |  |  |
|  | Outcome | Terrain | Drill suggestions | Duration (approximate) |
| Warm-up | Raising body temperature <br> Activation of workout specific abilities | Easy trail/area <br> Easy open slope | Easy ski <br> Ski Ballet <br> Allowing the skiers to move in a natural, free, and creative manner. Exploring the limitations of movement \& equipment. | 10 mins <br> 10 mins |


| Skill Development Athletic posture/position <br> Fitness Development | Step turns <br> Agility in descending <br> Line choice <br> Endurance | Flat terrain <br> Open slope | Flow Slalom <br> Focus on position, moving body through turn, maintaining speed <br> Prison Break <br> Increasing drill difficulties in the following order: <br> Free run to hockey/skidded stop <br> Free run to side slipping <br> Free run to 180 <br> Free run to 180 to hop 180 <br> Dual Cross <br> Parallel slalom courses <br> Pursuit Cross <br> Skiers start at intervals and try to catch skier in front on single slalom course <br> Double Cross <br> Multiple skiers depart at same time on single slalom course <br> *Skiers are encouraged to maintain continuous activity throughout drills climbing back up at own pace. | 60 mins |
| :---: | :---: | :---: | :---: | :---: |
| Wrap-up |  |  |  | 5 mins |

## Session 4

| Session Objectives | Transitions <br> $\bullet$ <br> $\bullet$ |
| :--- | :--- |
|  | From one technique to another |
|  | From one terrain to another |


| Practice Plan |  |  | Outcome | Terrain |
| :--- | :--- | :--- | :--- | :--- |
| Warm-up | $\begin{array}{l}\text { Raising body temperature, } \\ \text { activation of muscles } \\ \text { Mobility, increasing range } \\ \text { of motion }\end{array}$ | Fasy trail/area | Drill suggestions | Duration (approximate) |
|  |  | Easy ski | 10 mins |  |
| $\begin{array}{l}\text { Skill Development } \\ \text { Power position and Power } \\ \text { line, Timing }\end{array}$ | $\begin{array}{l}\text { Feeling the efficiency of } \\ \text { effort and selecting the } \\ \text { best technique }\end{array}$ | Flat leading into a hill | $\begin{array}{l}\text { Double Pole Til No More } \\ \text { Drill (mod.) } \\ \text { Beginning on flat, skiers One } \\ \text { Skate as far up the hill as possible }\end{array}$ | 15 mins |
| Technique Zones |  |  |  |  |
| Applying a specific technique in |  |  |  |  |
| the require segment of a short |  |  |  |  |$] 15$ mins | mins |
| :--- |
| Fitness Development |

## Session 5

| Session Objectives | Fast power |
| :---: | :---: |
| Practice Plan |  |


|  | Outcome | Terrain | Drill suggestions | Duration (approximate) |
| :---: | :---: | :---: | :---: | :---: |
| Warm-up | Raising body temperature, activation of muscles <br> Mobility, increasing range of motion | Easy trail/area | Easy ski <br> Acceleration Drill I <br> Over distance of $50-75 \mathrm{~m}$, skiers should continuously accelerate down the track while using One Skate, Two Skate or Offset | 10 mins <br> 15 mins |
| Skill Development <br> Power position | Building strength into technique | Flat terrain <br> Flat leading into hill | Tractor-Pull (One Skate) <br> Emphasizing proper timing in muscle contractions and avoiding dead spots in technique <br> High-Point Drill (Two Skate) <br> Timing and speed of movement within Two Skate | 15 mins <br> 15 mins |
| Fitness Development | Maintaining momentum | Two variable terrain loops with short climbs <br> (45 secs \& 90 secs) | Team Relay (teams of 2) <br> Each skier alternates between 90 sec and 45 sec loop. <br> Skiers are encouraged to carry and maintain speed into climbs and to accelerate over the top before descents. | 35 mins |
| Wrap-up | Ski, ski, ski! |  |  | 5 mins |

