

*epicRIDES*TM **TRAINING GUIDE**

HEALTH WARNING

Not all exercise programs are suitable for everyone, so please consult your physician before beginning this or any exercise program. You should always warm up for a few minutes before beginning any exercise program. You should never exercise beyond the level at which you feel comfortable. If at any time you feel that the recommended intensity is too difficult, reduce the resistance or shift to a lower gear. Take additional time to rest between sections if needed. If at any time you feel discomfort or you are exercising beyond your limit, you should slow down or discontinue the exercise immediately.

THE USER ASSUMES ALL RISKS OF INJURY IN USE OF THIS PROGRAM.

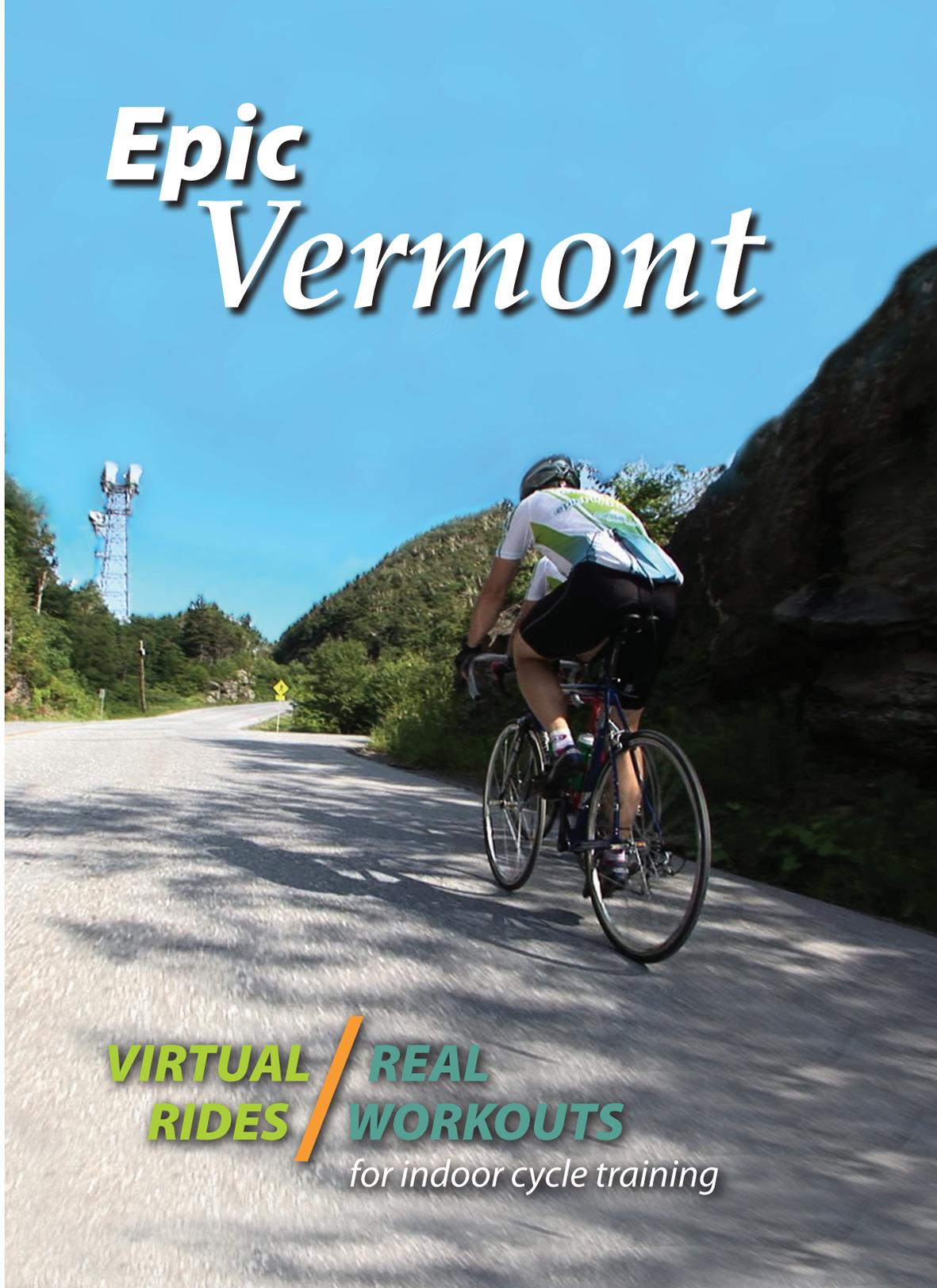


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Epic Vermont



**VIRTUAL / REAL
RIDES / WORKOUTS**

for indoor cycle training

Welcome to **epicRIDES™** - Real rides, shot in real places with real riders that are virtually amazing!

This Training Guide offers you a number of physiologically based training programs created in partnership with Joey Adams, M.S. CycleOps Master Training Specialist and owner of Intelligent Fitness a human performance company.

Here is what you will find in this Training Guide:

- An explanation about our Training Zone methodology
- An explanation of the **epicRIDES™** digital dashboard
- Three different Training Ride programs to choose
- A blank Training Ride program for you or your trainer to write in your own training program for this ride

Additionally, on our web site (www.epicplanet.tv) you can also find:

- A Route Map of this epic ride
- A way for you to nominate your own Epic Ride for consideration for filming by the epicPLANET.tv team
- A feedback form for you to share your ideas about **epicRIDES™** with us

Your next step is to get your indoor cycling gear on, and get ready for an epic indoor experience! So pop your DVD in, get on your indoor bike, and let's get those wheels spinning!

Don't Like Our Music? Then Use Your Own!

In our **epicRIDES™** testing we have found that the choice of music for Indoor Cycle Training is very subjective and that it's virtually impossible to please everyone!

So we suggest that if our music is not for you, simply turn the volume down on the video and use your iTunes, Music Player or other digital music player software to create a your own playlist for this ride.

It's really pretty easy! Since our **epicRIDES™** is laid out in segments of five minute or multiples of five minutes, you can use your playlist creation software (such as iTunes) to organize your choice of songs for this ride; keeping in mind that you want your music for each segment to either fit or exceed the length of that segment. Then, when you ride, simply move the music ahead to the next segment's songs if your choices for the previous segment runs too long.

And with iTunes, you can even share your custom **epicRIDES™** playlist with us and other riders by creating an iMix (use your iTunes help for instructions)!

A Note to Indoor Cycling Instructors

For years, indoor cycling instructors have mixed their own music selections and then blended these with a class program of their choosing to deliver exciting and motivating classes to their participants.

Now, with **epicRIDES™**, indoor cycling instructors can bring a new dimension to their classes - the video dimension! **epicRIDES™** are designed to complement you, the Instructor. So now you can take your class far outside your studio to real and exciting places, riding along with real riders on a challenging route.

As an indoor cycling instructor, we suggest you use this Training Guide as a starting place in making this **epicRIDES™** "your own." Here are the steps:

1. Ride to this **epicRIDES™** yourself before using it in a class.
2. Choose to use our music or create your own mix.
3. Review our various workouts in this Training Guide and either use them as they are, adapt one as you see fit or invent your own!
4. Finally develop your own individual strategy to use to present and lead this ride.

If you believe, like we do, that using real road riding situations in Indoor Cycling Classes is a great new way to motivate, energize and excite your class, then you can be sure to deliver a compelling **epicRIDES™** class time after time.

About epicRIDES™ Training Zones

by Joey Adams

Indoors versus outdoors. Outdoors versus indoors, each type of training has advantages over the other. Yet, they both have the same training zones in common. What is a training zone, and why is it important?

First, let's start with the big advantage that indoors has over outdoors – one can easily argue it is the smooth "road" of the inside. When you are riding outside there are many variables, you work with and against wind, terrain, and a host of environmental, physiological and psychological factors. Inside you can control the environment and the terrain – thus, you can more readily work in specific training zones via the elimination of extraneous factors. Indoor training ensures your body is getting the prescribed stimulus of a specific training session. In contrast to the varying stimuli often created when the ride is outside.

Often I will ask athletes that I coach to ride inside for certain workouts to maximize the "dosage" of their workout. Each of the training zones is like a dose of medicine – the dosage creates a specific response in the body and thus a specific adaptation. So, the first thing that is essential is having the right dose dialed in – this dosage can be identified through the CycleOps Power Test (<http://www.saris.com/t-CPTC.aspx?skinid=2>). After you have completed your test you now have your zones (dosages) ready for your training plan. Your training plan (daily, weekly, monthly and annually that you or your coach created as a roadmap towards your goals) will identify for you

when and how you need to exercise to create the optimal adaptation of your physiology with the most efficient use of your time. Without a plan you are just working out – with a plan you build your strengths and improve on your weaknesses. Each training zone creates specific adaptations and each training zone fits into a larger whole. **The table on the next page highlights some of the key elements of each zone.** But keep in mind the body is in a constant state of flux and is always "blending" systems and hence, fiber type recruitment depending on fitness, neuromuscular pathways, bike fit and a host of other factors – thus, the following is offered as a generalization of the complexity of the body's intricacies.

Think of each zone as a building block for the next zone. As you build your physiology from the bottom up (Zone 1 to Zone 5), you are creating a stronger you. Each zone is dependent on the strength of the zones below it. Thus, the anaerobic system is dependent upon the strength of the aerobic system. The longer you can rely on the strength of Zone 1, the less you will have to rely on the limited capacity of the anaerobic system in Z5. The more wattage you can get out of Z1 the more energy you get at less cost to the body. It is just like driving your car in these days of high cost petroleum. By having an efficient and strong aerobic system you get more power at less cost – kind of like a "green" ride. As your threshold increases you will notice that your wattage output in each training zone increases! We all want more power at less cost... using training zones within a periodized training plan is the way to get more power out of less effort!

About Joey Adams

Joey Adams is a twenty-five year veteran of the sports and fitness industry, as well as a ten year Indoor Cycling Master Trainer.



Joey holds a Bachelor's Degree in Physical Education, a Master's in Exercise Science and a Post-Baccalaureate in Education. He is an elementary educator and owner of Intelligent Fitness. Intelligent Fitness provides human performance assessments and coaching. Joey has based his philosophy of wellness and fitness on the science and principles of training. Training with power provides that "science" link that has been missing in cardiovascular training, until the development of the CycleOps Power Indoor Cycle.

Joey resides in Vermont living the vegan lifestyle while running amuck with his wife and curious children.

Training Zone	% of Threshold Power	Approx. % of Maximal HR*	Rating of Perceived Exertion 1-10 Scale	Primary Energy System	Primary Muscle Fibers	Primary Fuel	Benefits
5	Max effort	Maximum	10 Very Hard	Anaerobic	Fast Twitch IIa and IIb	Carbohydrate/ Creatine Phosphate	<ul style="list-style-type: none"> increases high energy phosphate stores (ATP/PCr) Increases neurological recruitment
4	100 - 120% TP	>85%	8 - 9 Hard	Anaerobic	Fast Twitch IIa	Carbohydrate	<ul style="list-style-type: none"> improves lactate clearance develops speed develops power elevates anaerobic capacity hypertrophy of fast twitch fibers increases anaerobic capacity increases VO2
3	85 - 100% TP	80 - 85%	5 - 7 Moderate to Hard	Aerobic and Anaerobic	Fast Twitch IIa	Carbohydrate	<ul style="list-style-type: none"> increases oxidative/glycolytic enzymes elevates lactate threshold develops strength increases blood buffering of lactate
2	60 - 85% TP	65 - 80%	3 - 4 Moderate	Aerobic	Slow Twitch	Fat	<ul style="list-style-type: none"> body fat/weight loss skill/technique development improves economy of movement increases capillary density increases oxidative enzymes slow twitch development connective tissue development increases stroke volume/maximal cardiac output increases muscle fuel storage builds muscular endurance and stamina increases blood volume
1	Up to 60% TP	Up to 65%	1 to 2 – Easy	Aerobic	Slow Twitch	Fat	<ul style="list-style-type: none"> removal of metabolic waste regeneration between intervals recovery after hard training rest during injury or illness warm up or cool down no muscular fatigue

*Fitness level, stroke volume, and a plethora of other factors effect heart rate and heart rate zones – see The Heartbeat of Power at <http://www.saris.com> for a more detailed explanation.

Training Activity



Average Grade
(for segment)

Training Zone

Current Ride Position

Terrain Profile

Ride Timer

TRAINING GOAL: Get your legs on for this ride, an all out assault to the top which will boost your VO2 and leave your legs searing as they learn to buffer lactate getting you race ready!

Segment	Time	Training Activity	Avg. Grade	TZ	RPM	Action
1	00:00-05:00	Warm Up	+1%	1-2	80-90	Depart Waitsfield – actively warm up body
2	05:00-15:00	Easy Climb	+3%	2-3	70-90	Start climb in saddle easing up TZ <ul style="list-style-type: none"> • 05-10:00 cadence and zone variations to bring HR up and settle in to the climb • 10:00-15:00 80 rpm settle into top of TZ3 and a constant rpm
3	15:00-35:00	Hard Climb	+9%	3-5	60-80	Hard climb to the top of Appalachian Gap <ul style="list-style-type: none"> • 15:00-20:00 bottom of TZ3 60rpm • 20:00-25:00 surge to 70 rpm to TZ4 • 25:00-30:00 surge to 80 rpm and hold top of TZ4 • 30:00-35:00 all out assault to the top, in and out of saddle in TZ5, when you see the cellular towers it is time to power up and finish strong!
4	35:00-40:00	Fast Spin	-8%	3	80-90	Fast descent down the gap with cadence variation every minute from 80 rpm and accelerate to 90 rpm and then back down to 80 rpm.
5	40:00-45:00	Cool Down	-3%	2-1	90	Ride home to Bristol – cool down body, finish flushing out the lactate with high rpm

Disclaimer: Prior to embarking on any fitness program please consult with your physician. Remember, the following are recommended as guidelines. Always think safety first. Each of the following is designed to create a distinct training adaptation.

TRAINING GOAL: Learn to hold back and learn to ride strong as you train your aerobic engine to be as strong as possible while keeping your anaerobic engine in check for another epic hill!

Segment	Time	Training Activity	Avg. Grade	TZ	RPM	Action
1	00:00-05:00	Warm Up	+1%	1-2	80-90	Depart Waitsfield – actively warm up body
2	05:00-15:00	Easy Climb	+3%	2-3	70-90	Start climb in saddle, vary cadences while maintaining HR, learn that cadence will be your “friend” on this ride and save you from blowing up. <ul style="list-style-type: none"> • 05:00-10:00 80-90 rpm TZ2 • 10:00-15:00 80 rpm drifting to upper TZ3, but when you start to drift in HR slow the tempo down.
3	15:00-35:00	Hard Climb	+9%	2-3	60-80	Hard climb to the top of Appalachian Gap, twenty minutes of living on the edge, focus on form and relaxed upper body, while staying in the saddle as long as you can with a constant tempo, gearing, TZ and rpm. See just how close to the edge you can take it while maintaining control.
4	35:00-40:00	Fast Spin	-8%	2	80-90	Fast descent down the gap – use cadence changes to stimulate the aerobic engine, the faster the cadence the more the aerobic engine is involved.
5	40:00-45:00	Cool Down	-3%	2-1	90	Ride home to Bristol – cool down body and evaluate aerobic development

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TRAINING GOAL: Recovery is the key to this ride, the quicker you recover from an interval the stronger you are; the more you train your body to recover, the stronger your aerobic engine; the stronger your aerobic engine, the bigger your fitness foundation – your base!

Segment	Time	Training Activity	Avg. Grade	TZ	RPM	Action
1	00:00-05:00	Warm up	+1%	1	80-90	Depart Waitsfield – actively warm up body
2	05:00-15:00	Easy Climb	+3%	2-3	70-90	Start climb in saddle easing up TZ <ul style="list-style-type: none"> • 05-10:00 cadence and zone variations to bring HR up and settle in to the climb • 10:00-15:00 80 rpm settle into top of Z3 and a constant rpm
3	15:00-35:00	Hard Climb	+9%	2-5	60-80	Hard climb to the top of Appalachian Gap <ul style="list-style-type: none"> • 15:00-20:00 start at bottom of TZ3 60 rpm • 20:00-25:00 surge to 80 rpm to top of TZ4 • 25:00-30:00 bring to 80 rpm and hold top of TZ2 • 30:00-35:00 all out assault to the top, in and out of saddle every minute from TZ3 to TZ5 while holding rpm at 70, when you see the cellular towers it is time to power up and finish strong for the last minute as hard as you can go!
4	35:00-40:00	Fast Spin	-8%	3	80-90	Fast descent down the gap with cadence variation every minute from 80 rpm and accelerate to 90 rpm and then back down to 80 rpm.
5	40:00-45:00	Cool Down	-3%	1	90	Ride to Bristol - cool down body, finish flushing out the lactate with high rpm and preparing yourself for your next epicRIDES™!

Disclaimer: Prior to embarking on any fitness program please consult with your physician. Remember, the following are recommended as guidelines. Always think safety first. Each of the following is designed to create a distinct training adaptation.

Epic Vermont Training Ride Template

This blank page is for you or your trainer to write in your own **epicRIDES™** training plan.

TRAINING GOAL:

Segment	Time	Training Activity	Avg. Grade	TZ	RPM	Action
1	00:00-05:00	Warm up	+2%			
2	05:00-15:00	Easy Climb	+3%			
3	15:00-35:00	Hard Climb	+9%			
4	35:00-40:00	Fast Spin	-8%			
5	40:00-45:00	Cool Down	-3%			

Disclaimer: Prior to embarking on any fitness program please consult with your physician. Remember, the following are recommended as guidelines. Always think safety first. Each of the following is designed to create a distinct training adaptation.