

PART 16 PARA-CYCLING

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PART 16 PARA-CYCLING

Chapter GOVERNANCE

- 16.1.001 The International Paralympic Committee (IPC) is the supreme authority governing **para-cycling** at paralympic standard where it relates to Paralympic summer Games.

(text modified on 26.06.07).

- 16.1.002 **[article abrogated on 26.06.07].**

- 16.1.003 **[article abrogated on 26.06.07].**

Viability of events

- 16.1.004 In **para-cycling** competitions, except the Paralympic Games, an organiser, in consultation with the appointed technical delegate, or **the UCI**, may mix classes, divisions, age groups and gender, as necessary to produce a viable event.

For events with less than four competitors, the 'minus one' rule will apply if medals are to be awarded: no medal for one competitor, one medal for two competitors, two medals for three competitors and three medals for four or more competitors.

(text modified on 26.06.07).



Chapter AGE CATEGORIES

- 16.2.001 In **para-cycling** competitions, except the paralympic games, UCI categories **described at article 1.1.034 and the following of the UCI regulations** shall apply for both men and women. Different age categories may compete together, with the exception of the youth category. In **para-cycling** competitions combining different categories, category awards are not mandatory.
- In **para-cycling** track and road competitions, the minimum age for the youth category shall be the year of the rider's 14th birthday.
 - All road circuits for youth category racing must be completely closed to other traffic.
 - Youth category riders shall only compete amongst themselves.
 - The completed final entry form for **para-cycling** competitions for youth category riders shall include a signature of parental (legal guardian) consent for the rider to compete.

(text modified on 26.06.07).



Chapter ELIGIBILITY FOR PARA-CYCLING COMPETITIONS

Athletes

- 16.3.001 Eligible for **para**-cycling competitions are athletes with a functional class profile as defined for each class under these rules.

See details of **para**-cycling functional classification in **chapter V below**.

(text modified on 26.06.07).

- 16.3.002 All athletes, including tandem pilots, must hold a valid international racing licence from their UCI recognised national cycling federation. This licence must be presented at all **para**-cycling competitions.

(text modified on 26.06.07).

Tandem pilots

- 16.3.003 **Professional cyclists being members of a UCI registered team may not take part as a tandem pilot.**

(text modified on 26.06.07).

- 16.3.004 A tandem pilot who is an ex-UCI trade team member must not have been registered as a trade team cyclist for a period of three calendar years.

- 16.3.005 Men and women cyclists over 18 years of age, may race as tandem pilots, provided they have not been selected by their national federation for any UCI listed events in the previous three calendar years. A tandem pilot may only compete with one visually impaired athlete each day of a **UCI** competition.

(text modified on 26.06.07).

- 16.3.006 Each blind or visually impaired athlete is allowed a maximum of one pilot for any **UCI** competition, which consists of road only, or track only events. Where a **UCI** competition has both road and track events, each blind or VI athlete is allowed one pilot for sprint events and one pilot for endurance events, being a maximum of two. In practice one pilot shall be for track sprint and 1,000 metres time trial and one pilot shall be for road race and road time trial. For the track pursuit, flexibility shall be allowed as to which of the two pilots is used. The use of just one pilot for all events, both track and road, shall be permitted.

(text modified on 26.06.07).

IV

Chapter CATEGORIES

Blind and Visually Impaired (B & VI)

- 16.4.001 Blind and visually impaired cyclists compete on the rear of tandem bicycles, with a sighted pilot, in one of 3 Classes:

Classes - men; women; mixed.

Class profiles: see details of para-cycling functional classification in chapter V below.

The decision to compete in the mixed class is that of the VI athlete. During any IPC competition, the VI athlete is only allowed to start in one class and the changing of classes is not permitted.

Minimum disability – refer to cycling functional classification details **in chapter V below.**

(text modified on 26.06.07).

Locomotor disabilities (LC)

- 16.4.002 Cyclists with locomotor disabilities compete on bicycles in four functional classes: LC 1; LC 2; LC 3; LC 4, with separate events for men and women.

Class LC 1 - This class is essentially for athletes having minor or no lower limb disabilities. Class profiles: See details of para-cycling functional classification **in chapter V below.**

Class LC 2 - This class is essentially for athletes with disabilities in one leg, but who are able to pedal normally using 2 legs, with or without prostheses. Class profiles: See details of **para-cycling in chapter V below.**

Class LC 3 - This class is essentially for athletes with disabilities on one lower limb, with or without upper limb disability. Most athletes pedal with one leg. Class profiles: see details of **para-cycling in chapter V below.**

Class LC 4 - This class is essentially for athletes with more severe disabilities usually affecting both lower limbs, with or without upper limb disability. **Class profiles: See details of para-cycling in chapter V below.**

(text modified on 26.06.07).

Cerebral Palsy (CP)

- 16.4.003 Cerebral palsy cyclists compete in four functional divisions, with separate events for men and women.

CP 4 – classes CP 8 & 7 - cycle type: bicycle

CP 3 – classes CP 6 & 5 - cycle type: bicycle

CP 2 – classes CP 6 & 5 - cycle type: tricycle

CP 1 – classes CP 4 to 1 - cycle type: tricycle

The decision to use a tricycle or a bicycle and compete in division 2 or division 3 is that of the athlete. During any **para-cycling** competition, the athlete is only allowed to start in one division and the changing of divisions is not permitted.

CP 4 – is for the least severely disabled athletes, who race on bicycles. Class profiles: see details of **para-cycling functional classification in chapter V below.**

CP 3 & 2 – These two divisions provide athletes with a choice of racing on bicycles in division 3, or tricycles in division 2. Class profiles: see details of **para-cycling in chapter V below.**

CP 1 – is for the more severely disabled athletes who race on tricycles. Class profiles: see details of **para-cycling in chapter V below.**

(text modified on 26.06.07).

Handcycling (HC)

16.4.004 Handcycling athletes compete in three disability divisions in **para-cycling** competitions, with separate events for men and women. Handcycling is for athletes who normally require a wheelchair for general mobility, or athletes not able to use a conventional bicycle or tricycle because of severe lower limb disability.

HC A – classes HC 1 & 2

HC B – classes HC 3; 4 & 5

HC C – classes HC 6; 7 & 8

A functional classification system is used, where an athlete's functional ability for handcycling is assessed, based on the level of spinal cord lesion, or corresponding disability. Classification of an athlete shall be in race dress with their race equipment, using the following checks:

- Medical documentation of the athlete's disability
- Functional tests
- Observation in training and competition.

In the case of an incomplete spinal cord lesion, the functional ability of the athlete will decide the final classification and the decision of the IPC cycling classifier shall be final.

HC A – is for the more severely disabled athletes with complete loss of trunk and lower limb function, together with other severe and complex disabilities. Class profiles: see details of **para-cycling in chapter V below.**

HC B – is for athletes with complete loss of lower limb function and limited trunk stability. Class profiles: see details of **para-cycling in chapter V below.**

HC C – is for athletes with complete lower limb function loss, but minimal other functional disabilities, or partial lower limb function loss combined with other disabilities to make conventional cycling not viable. Class profiles: see details of **para-cycling in chapter V below.**

(text modified on 26.06.07).

V

Chapter FUNCTIONAL CLASSIFICATION

(chapter modified on 26.06.07).

- 16.5.001 **A functional classification system is used, where an athlete's functional ability is assessed, based on the level of spinal cord lesion, or corresponding disability. Classification of an athlete shall be in race dress with their race equipment, using the following checks:**
- Medical documentation of the athlete's disability;
 - Functional tests;
 - Observation in training and competition.

In the case of an incomplete spinal cord lesion, the functional ability of the athlete will decide the final classification and the decision of the UCI classifier shall be final.

- 16.5.002 **Blind and Visually Impaired (B & VI) Class profiles - from no light perception in either eye up to visual acuity of 6/60 and/or visual field of less than 20 degrees. This minimum equates to IBSA class B3. Classification assessed in the best eye with the best correction (i.e. all athletes who use contact or corrective lenses must wear them for classification, whether they intend to wear them in competition or not).**

Locomotor disabilities (LC)

- 16.5.003 **Class LC 1 - This class is essentially for athletes having minor or no lower limb disabilities.**

Class profiles - any one of the following:

- a) amputation of more than half-foot (= forefoot);
- b) decrease in muscle strength or ankylosis (arthrodesis) in one lower limb of between 10 and 14 points, or isolated paralysis in muscles quadriceps femoris or triceps surae;
- c) leg length difference of 7-12 cm;
- d) amputation or paralysis of one upper limb, with or without artificial hand-grip, or decrease in muscle strength of one upper limb of more than 20 points;
- e) In the case of upper limb amputation or dysmelia the minimal disability is met if all fingers and the thumb of one hand are missing or without functional grip. As proof of the loss of functional grip, the affected athletes will not be able to operate handlebar mounted gear and brake levers with the disabled limb;
- f) deformations of the spine, such that riding in a normal aerodynamic position is not possible.

Class LC 2 - This class is essentially for athletes with disabilities in one leg, but who are able to pedal normally using 2 legs, with or without prostheses.

Class profiles - any one of the following:

- a) single above- or below-knee amputation with prosthesis;
- b) decrease in muscle strength in one lower limb of 15-24 points;
- c) leg length difference of more than 12 cm;
- d) restricted flexion of knee of up to between 51 and 80 degrees;
- e) amputation or paralysis of both upper limbs with artificial handgrips on one or both sides (e.g. prosthesis, orthosis, Krukenberg, etc.);
- f) disabilities as described in a)-d) above, with or without upper limb disability.

Class LC 3 - This class is essentially for athletes with disabilities on one lower limb, with or without upper limb disability. Most athletes pedal with one leg.

Class profiles - any one of the following:

- a) single above - or below-knee amputation without prosthesis. If a prosthesis is used, the radius of rotation of the pedal on the amputated side is 0 (zero), or not more than 6 cm;
- b) one lower limb not functional for normal pedalling, for example:
 - flexion of the knee is less than 50 degrees;
 - radius of rotation of one pedal is not more than 6 cm.
- c) decrease in muscle strength in both lower limbs a total of 25-39 points;
- d) double below-knee amputation with prostheses;
- e) stiff hip joint, such that the fixed or maximum flexion is less than 30 degrees and that the radius of rotation of the pedal on the stiffened side is 0 (zero), or not more than 6 cm.

Class LC 4 - This class is essentially for athletes with more severe disabilities usually affecting both lower limbs, with or without upper limb disability.

Class profiles - any one of the following:

- a) double above-knee amputation, with one or two prostheses;
- b) single above-knee amputation, plus amputation of upper limb, without leg prosthesis and holding the handlebar with only one hand;
- c) combination of above-knee and below-knee amputation, with one or two prostheses;
- d) double below-knee amputation, with prosthesis only on one side;
- e) decrease in muscle strength in both lower limbs a total of at least 40 points.

Cerebral Palsy (CP):

16.5.004 **CP division 4** – is for the least severely disabled athletes, who race on bicycles.

Class profiles – as follows:

Class 8:

- a) minimally affected diplegic with spasticity Grade 1;
- b) truly ambulant hemiplegic with spasticity Grade 1;
- c) monoplegics and minimal athetoids;
- d) possible loss of function by uncoordinated hands or one leg.

Class 7:

- a) truly ambulant hemiplegic with spasticity Grades 3 to 2 in one half of the body. May walk with a limp;
- b) hand and arm control only affected on non-dominant side.

CP divisions 3 & 2 – These two divisions provide athletes with a choice of racing on bicycles in division 3, or tricycles in division 2.

Class profiles – as follows:

Class 6:

- a) athetosis the most prevalent factor, although some ambulant spastic quadriplegics (i.e. more arm involvement than ambulant diplegics);
- b) ambulant moderate athetoid or ataxic, control problems in upper limbs is usual;
- c) athletes with balance problems and difficulty with seated balance and control, may choose to use tricycles;
- d) athetoid athletes will have uncoordinated walking gait and difficulty with athetoid movement of all limbs;
- e) Grasp and release and coordination of hand(s) will be moderately to severely affected.

Class 5:

- a) symmetric or asymmetric moderate diplegic;
- b) may require assistive device for walking, dynamic balance may be affected;
- c) lower spasticity Grade 3 to 2 in one or both legs;
- d) moderate to minimal limitation in upper extremities with normal strength.

CP division 1 – is for the more severely disabled athletes who race on tricycles.

Class profiles – as follows:

Classes 4 - 1:

- a) severe to moderate locomotor dysfunction of at least three extremities;
- b) poor functional strength in trunk and all extremities;
- c) spasticity Grade 4 to 3;
- d) dynamic control and synchronisation is poor;
- e) trunk rotation is fair to poor;
- f) balance for cycling is poor to fair;
- g) athletes will require assistance with mounts and starts.

- 16.5.005 Handcycling (HC):
HC division A – is for the more severely disabled athletes with complete loss of trunk and lower limb function, together with other severe and complex disabilities.

Class profiles – as follows:

Class HC 1:

- a) tetraplegic with disabilities corresponding to a complete cervical lesion at C7/C8 or above;
- b) limited handgrip;
- c) thermo-regulatory system limitations;
- d) impaired sympathetic nerve system

Class HC 2:

- a) non-spinal cord injury, but functional ability profile equivalent to class HC 1.

HC division B – is for athletes with complete loss of lower limb function and limited trunk stability.

Class profiles – as follows:

Class HC 3:

- a) paraplegic with disabilities corresponding to a complete lesion from Th1 to Th3;
- b) very limited trunk stability;
- c) impaired sympathetic nerve system .

Class HC 4:

- a) paraplegic with disabilities corresponding to a complete lesion from Th4 to Th9/Th10;
- b) limited trunk stability.

Class HC 5:

- a) non-spinal cord injury, but functional ability profile equivalent to class HC 3/4.

HC division C – is for athletes with complete lower limb function loss, but minimal other functional disabilities, or partial lower limb function loss combined with other disabilities to make conventional cycling not viable.

Class profiles – as follows:

Class HC 6:

- a) paraplegic with disabilities corresponding to a complete lesion from Th11 to L4;
- b) no lower limb function, or limited function;
- c) normal, or almost normal trunk stability.

Class HC 7:

- a) non-spinal cord injury, but functional ability profile equivalent to class HC 6

Class HC 8:

- a) double above knee amputee;
- b) single leg amputation, with other disabilities, which prevent the safe use of a conventional bicycle or tricycle;
- c) incomplete loss of lower limb function, with other disabilities, which prevent the safe use of a conventional bicycle or tricycle.

In class HC 8 the eligibility for handcycling will be established by comparing the athlete's disabilities with the functional profiles of the appropriate conventional cycling classification. Documentation to prove the medical need to use a handcyclist shall be required and the decision of the IPC cycling classifier shall be final.

Para-cycling functional classification card

- 16.5.006 A para-cycling functional classification card will be provided, free of charge, for use by athletes as proof of functional classification for para-cycling. The card may be requested for inspection by various agencies including, national paralympic committees, national cycling federations, plus competition organisers and race officials. Replacement of lost cards will involve an administration fee of circa CHF 5.–. If an athlete is formally re-classified, an updated para-cycling functional classification card will be issued, free of charge.

Other classification criteria

- 16.5.007 In all questionable classifications it is essential that the classifier, in conjunction with the technical adviser, consider the cycle to be used by the athlete and the way it is ridden. In some classifications it may be necessary to include a proviso on the athlete's functional classification card that a particular adaptation is permitted, or essential for reasons of safety.

VI

Chapter UCI PARA-CYCLING WORLD CHAMPIONSHIPS

- 16.6.001 For all **UCI para-cycling world championships**, the programme of events must be scheduled so that athletes from any class are not expected to compete in more than one event on any one day.

(text modified on 26.06.07).

VII

Chapter ROAD RACES

- 16.7.001 For all **UCI para-cycling** world championships, the maximum number of individual athletes from a nation is three for each class in each road race. Races must begin with a neutralised rolling start of at least 200 metres to enable all athletes to be safely and fairly underway. All road race courses must be completely closed to other traffic.

(text modified on 26.06.07).

Road race distances

- 16.7.002 The minimum and maximum distances for **UCI para-cycling world** championships road races shall be:

Class	Minimum	Maximum
Blind & VI men	100 km	120 km
Blind & VI mixed	60 km	80 km
Blind & VI women	50 km	70 km
Class LC 1 men	70 km	110 km
Class LC 2 men	60 km	90 km
Class LC 3 men	50 km	70 km
Class LC 4 men	40 km	60 km
Class LC 1 women	60 km	90 km
Class LC 2 women	50 km	70 km
Class LC 3 women	40 km	60 km
Class LC 4 women	30 km	50 km
CP division 4 men	1 hour or 35 km	70 km
CP division 3 men	1 hour or 35 km	70 km
CP division 2 men	30 mins or 15 km	30 km
CP division 1 men	30 mins or 15 km	30 km
CP division 4 women	45 mins or 30 km	50 km
CP division 3 women	45 mins or 30 km	50 km
CP division 2 women	30 mins or 15 km	30 k
CP division 1 women	30 mins or 15 km	30 km

Class	Minimum	Maximum
HC division A men	1 hour or 35 km	70 km
HC division B men	1 hour or 35 km	70 km
HC division C men	1 hour or 35 km	70 km
HC division A women	20 km	60 km
HC division B women	20 km	60 km
HC division C women	20 km	60 km

(text modified on 26.06.07).

Road race circuits

- 16.7.003 Road race circuits at all **UCI para-cycling** world championships, except Paralympic Games, for tandem and solo bicycles shall be a minimum length of 5 km, with 8 km recommended. Circuits which are shorter than 5 km, but with unique, desirable features, (for example purpose built motor racing circuits), may be permitted at the discretion of the **UCI**, on the recommendation of the appointed technical delegate.

Climbs on any circuit to be not more than 6% average gradient and not more than 15% maximum. Total length of climbing must not be more than 25% of the total circuit length.

Tricycles, handcycles and youth category riders may use a shorter and less technically difficult circuit, at the discretion of the technical delegate.

(text modified on 26.06.07).

Starting order

- 16.7.004 Each road race must start with minimum of 2 minutes between each class, group, or division to avoid the unwanted mixing of classes.

Pacing/drafting

- 16.7.005 Any athlete from one class, group, or division following, taking pace or drafting from an athlete from another class, will be disqualified.

VIII

Chapter INDIVIDUAL TRIALS

- 16.8.001 For all **UCI para-cycling** world championships the maximum number of individual athletes from a nation is three for each class in each time trial. It is recommended that all courses should be completely closed to non-race traffic. The minimum requirement is complete course closure to oncoming traffic. Time trial courses can use the same circuits as those used for road races in the same programme.

(text modified on 26.06.07).

Time trial distances

- 16.8.002 The minimum and maximum distances for **UCI para-cycling** world championship time trials shall be:

Class	Minimum	Maximum
Blind & VI men	10 km	50 km
Blind & VI mixed	5 km	40 km
Blind & VI women	5 km	40 km
Class LC 1 men	5 km	40 km
Class LC 2 men	5 km	40 km
Class LC 3 men	5 km	30 km
Class LC 4 men	5 km	30 km
Class LC 1 women	5 km	40 km
Class LC 2 women	5 km	30 km
Class LC 3 women	5 km	30 km
Class LC 4 women	5 km	20 km
CP division 4 men	5 km	40 km
CP division 3 men	5 km	30 km
CP division 2 men	1.5 km	10 km
CP division 1 men	1.5 km	10 km
CP division 4 women	5 km	30 km
CP division 3 women	5 km	20 km
CP division 2 women	1.5 km	10 km
CP division 1 women	1.5 km	10 km

Class	Minimum	Maximum
HC division A men	5 km	30 km
HC division B men	5 km	30 km
HC division C men	5 km	30 km
HC division A women	5 km	30 km
HC division B women	5 km	30 km
HC division C women	5 km	30 km

(text modified on 26.06.07).

IX

Chapter TRACK RACES

- 16.9.001 For all **UCI para-cycling world** championships the maximum number of individual athletes from a nation, in each class for each track event is three. CP **4 & 3** athletes only are permitted to use a single free wheel in track competitions for safety reasons.

(text modified on 26.06.07).

Kilometre and 500 metres classes and distances

- 16.9.002 Races shall be for the following classes and distances:

Class	Distance
Tandem men; mixed; women – blind & VI	1000 metres
Bicycle men - LC1; LC2; LC3; LC4	1000 metres
Bicycle men - CP 4; CP 3	1000 metres
Bicycle women - LC1; LC2; LC3; LC4	500 metres
Bicycle women - CP 4; CP 3	500 metres

Individual Pursuit

- 16.9.003 Races shall be for the following classes and distances:

Class	Distance
Tandem men - blind & VI	4000 metres
Bicycle men - LC1; LC2	4000 metres
Bicycle men - LC3; LC4	3000 metres
Bicycle men - CP 4; CP 3	3000 metres
Tandem mixed; women – blind & VI	3000 metres
Bicycle women - LC1; LC2; LC3; LC4	3000 metres
Bicycle women - CP 4; CP 3	3000 metres

Tandem sprint

- 16.9.004 Races shall be for blind and VI - men mixed and women

Team sprint (TS)

- 16.9.005 Races shall be for:
men classes - LC 1; LC 2; LC 3; LC 4 & CP 4; CP 3

For all **para-cycling** TS competitions, the maximum shall be one sprint team of 3 athletes per nation, plus substitutes, using a mix of LC classes and CP 4 & 3 riders. Each team must include at least two LC classes and the addition of the three team member's class numbers (e.g: LC 1+LC 2+LC 3 or +LC 4) must total at least six (6).

A CP 4 rider may be used to substitute for an LC 2 and a CP division 3 rider may be substituted for an LC 3, but the basis of the team composition must retain the LC calculation formula.

(text modified on 26.06.07).

- 16.9.006 During the team sprint, no athlete may deliberately go above the stayer (blue) line with the exception of the lead cyclist when relinquishing the lead.

X

Chapter WORLD RECORDS

16.10.001 New world records will be ratified according to UCI regulations. A copy of the documentation required must be sent to the **UCI administration**.

(text modified on 26.06.07).

16.10.002 A new world record submission will only be accepted from an athlete who has permanent status (PS) functional classification for the class in which the new record was set. The athlete must also possess a valid international racing licence from a UCI affiliated national cycling federation.

16.10.003 World records, when ratified, will be submitted for publication on the UCI websites.

XI

Chapter RACING DRESS

- 16.11.001 [article abrogated on 26.06.07. For racing dress provisions, refer to Article 1.3.026 and the following].
- 16.11.002 [article abrogated on 26.06.07. For racing dress provisions, refer to Article 1.3.026 and the following].
- 16.11.003 [article abrogated on 26.06.07. For racing dress provisions, refer to Article 1.3.026 and the following].
- 16.11.004 For all functional classes in IPC road races, athletes are required to provide their own helmet in the correct class colour, or use an appropriately coloured helmet cover, as follows:

Red helmet classes:	LC 1 men & women
	CP 2 men & women
	HC C men & women
	Tandem men
White helmet classes:	LC 2 men & women
	CP 4 men & women
	HC B men & women
	Tandem women
Blue helmet classes:	LC 3 men & women
	CP 3 men & women
	HC A men & women
Green helmet classes:	LC 4 men & women
	CP 1 men & women

Athletes using the wrong **color** helmet in road races will not be allowed to start and/or will be withdrawn from the race and disqualified.

(text modified on 26.06.07).

XII

Chapter MEDALS AND JERSEYS FOR UCI PARA-CYCLING WORLD CHAMPIONSHIPS

See part 9 of UCI regulations.

XIII

Chapter PENALTIES

16.13.001 In **para-cycling** competitions, any participant who commits an infraction of **regulations** will be subject to the disciplinary procedures **and sanctions** of the **UCI**.

(text modified on 26.06.07).

XIV

Chapter ANTIDOPING

16.14.001 Drug testing and health checks may be carried out at any **para-cycling** competition **using UCI rules**. The refusal of an athlete to submit to these checks will be treated as if the athlete tested positive, or failed a health check.

(text modified on 26.06.07).

XV

Chapter EQUIPMENT REGULATIONS

- 16.15.001 All cycles used in **UCI para-cycling** world championships or in **any other UCI events** have to meet the current requirements of the UCI EQUIPMENT REGULATIONS, (Part I, Chapter III). For morphological, or disability reasons, exceptions may be permitted, but the principle of the UCI regulations for cycles must be followed. For example: A handlebar adaptation is allowed for athletes with upper limb disabilities, if the athlete needs the adaptation to operate gear and brake levers, there is no unfair aerodynamic advantage and safety is not compromised.
- (text modified on 26.06.07).*
- 16.15.002 All disability adaptations to any cycle must be approved by the **UCI** technical delegate (TD) of the event before the commencement of competition. Approved adaptations shall be noted on the **para-cycling** functional classification card of the rider.
- (text modified on 26.06.07).*
- 16.15.003 The UCI, or competition officials shall not be liable for any consequences deriving from the choice of equipment and/or any adaptations used by licence-holders, nor for any defects it may have, or its non-compliance.
- 16.15.004 Artificial handgrips and prosthesis are allowed on upper disabled limbs, but not fixed to the cycle. For reasons of safety in the event of a fall, rigid prosthetic adaptations, mounted or fixed on parts of the cycle, are not allowed.
Except for handcycles, a cyclist's position shall be supported solely by the pedals, the saddle and the handlebar.
- 16.15.005 Classes LC 3 and LC 4 athletes with above knee amputation may use a support for the thigh only if, for safety reasons, there is no fixation of the thigh to the bicycle. This means, that the support may be a half tube attached to the cycle, with a closed base and maximum of 10 cm closed side at the base, but no thigh fixing devices are permitted.
- 16.15.006 Road bicycles, tandems, tricycles and handcycles must have two independent braking systems. Bicycles and tandems must have an independent brake on each wheel, but the brakes on tricycles and handcycles may be fitted to the most appropriate wheel(s).
- 16.15.007 In **UCI para-cycling road world** championships, where neutral race service is offered, it is probable that only standard bicycle wheels will be available. Therefore, it may not be possible to provide neutral service to tandem frames with hub spacing wider than a standard road bicycle. Also, it is very unlikely that neutral spare tricycle wheels will be available, or spare wheels suitable for handcycles, except where any wheel is interchangeable with a standard bicycle road wheel.

(text modified on 26.06.07).

XVI

Chapter TANDEM BICYCLE

Definition

- 16.16.001 The tandem is a vehicle for two cyclists, with two wheels of equal diameter, which conforms to the general principles of UCI construction for bicycles. The front wheel shall be steerable by the front rider, known as the 'pilot'. Both riders shall face forward in the traditional cycling position and the rear wheel shall be driven by both cyclists through a system comprising pedals and chains.
- 16.16.002 The tandem top tube and any additional strengthening tubes, may slope to suit the morphological sizes of the riders.

XVII

Chapter TRICYCLE

Definition

- 16.17.001 The tricycle is a vehicle with three wheels of equal diameter. The front wheel, or wheels, shall be steerable; the rear wheel, or wheels, shall be driven through a system comprising pedals and a chain.
- 16.17.002 Recumbent pedal tricycles are not permitted in **UCI para-cycling** competitions.
- (text modified on 26.06.07).*
- 16.17.003 A tricycle with two rear wheels shall conform to UCI construction and measurements for a bicycle, including the bottom bracket, seat tube and saddle position, but excluding the rear triangle.
- 16.17.004 A tricycle with two front steerable wheels shall conform to the general principles of UCI construction and measurements for a bicycle, including the rear triangle.
- 16.17.005 Wheels of the tricycle may vary in diameter between 70 cm maximum and 55 cm minimum, including the tyre, using conventional cycle components. Modified hub attachments may be used if necessary. The width of tricycle double wheels may vary between 85 cm maximum and 60 cm minimum, measured at the centre of each tyre where the tyres touch the ground.
- 16.17.006 If a tricycle two-wheel rear axle does not have a differential, only one wheel must be driven, due to the different speeds of the wheels in bends.
- 16.17.007 A tricycle shall not measure more than 200 cm in length and 95 cm in width overall.
- 16.17.008 To facilitate easy mounting by the rider, the tricycle top tube may slope down rearwards, with the limit being parallel with the down tube.
- 16.17.009 The two wheels of a tricycle may be offset a maximum of 10 cm either side of a centreline, which passes through the single wheel and the frame top tube.
- 16.17.010 In road races, it is recommended that a tricycle with two rear wheels should be fitted with a safety bar to prevent the front wheel of a following tricycle from entering the space between the rear wheels. A safety bar must not exceed the width of each rear wheel tyre and all tube ends closed or plugged.

XVIII

Chapter HANDCYCLE

Definition

- 16.18.001 The handcycle is an upright, or semi-recumbent three-wheel vehicle with an open frame of tubular construction, which conforms to the general principles of UCI construction for bicycles, except that the chassis frame tubes need not be straight.

The single wheel may be of a different diameter to the double wheels. The front wheel, or wheels, shall be steerable; the single wheel, either front or rear, shall be driven through a system comprising handgrips and a chain.

- 16.18.002 The rider shall be seated in a relatively upright position, with bodyweight supported through the seat. A backrest is permitted, but the riding position must not be reclined backwards to the extent that the backrest provides the primary upper body support. A minimum angle of 45 degrees, measured between horizontal and the back of the rider, should meet this requirement and the position must allow for all-round vision. A quick release body harness is permitted.

(article introduced on 1.01.04).

- 16.18.003 The handcycle shall be propelled solely, through a chainset and conventional cycle drive train, of crank arms, chainwheels, chain and gears, with handgrips replacing foot pedals. Cranks need not be at 180° to each other. Motive power shall be from the hands, arms and upper body only.

(article introduced on 1.01.04).

- 16.18.004 Wheels of the handcycle may vary in diameter between 70 cm maximum and 48 cm minimum, including the tyre, using conventional cycle components. An (ETRTO) 406 mm wheel rim shall be the minimum size permitted. Modified hub attachments may be used if necessary. The width of handcycle double wheels may vary between 85 cm maximum and 60 cm minimum, measured at the centre of each tyre where the tyres touch the ground.

(article introduced on 1.01.04).

- 16.18.005 A handcycle shall not measure more than 250 cm in length and 90 cm in width overall.

(article introduced on 1.01.04).

- 16.18.006 The largest chainwheel shall have a guard securely fitted to protect the rider. The rider's vision must not be obscured, particularly by the bottom bracket, cranks, chainwheels, chainwheel guards, gear and brake levers.

(article introduced on 1.01.04).

16.18.007 Maximum frame tube dimension shall be 80 mm, irrespective of tube material, or profile. Any fillets, or ribs, inserted at joins between tubes, shall be for strengthening purposes only. Non-functional, aerodynamic devices are not permitted for competition.

(article introduced on 1.01.04).

16.18.008 Leg and foot rests shall be fitted as necessary, with a secure means of protecting static lower limbs from all moving parts.

(article introduced on 1.01.04).

16.18.009 In road races, it is recommended that a handcycle with two rear wheels should be fitted with a safety bar to prevent the front wheel of a following handcycle from entering the space between the rear wheels. A safety bar must not exceed the width of each rear wheel tyre and all tube ends closed or plugged.

(article introduced on 1.01.04).

XIX

Chapter PARA-CYCLING INDIVIDUAL RANKING

- 16.19.001 The **para-cycling** individual ranking follows the principles contained in the UCI regulations: Part 2 road races chapter X individual classification, but subject to **following** amendments.

(text modified on 26.06.07).

- 16.19.002 **A** progressive individual ranking system for both men and women riders participating in the races referred to in article 16.20.001 **has been created.**

(text modified on 26.06.07).

These rankings shall be called the “**para-cycling individual ranking**” with separate categories for road and track and shall be the exclusive property of the **UCI.**

(text modified on 26.06.07).

- 16.19.003 Separate ranking for road and track shall also exist for **para-cycling** nations and shall be the exclusive property of **the UCI.**

(text modified on 26.06.07).

- 16.19.004 The rankings shall be established according to the points obtained by riders participating in **UCI** sanctioned road and track qualifying races, divided into classes according to article 16.20.001 below.

(text modified on 26.06.07).

- 16.19.005 The number of points to be won in each race is indicated in articles 16.21.001.

At the end of each race, the total number of points obtained by each rider on the previous occasion when that same race was run shall be subtracted from the total points won up to that time. If, in the course of any given year, a race is not held or no longer counts towards the ranking, the requisite number of points shall be subtracted on the date of the anniversary of the last time it was held.

Points awarded during stages, or multi-event championships, shall be taken into account only after the end of the race or championship.

- 16.19.006 National federations and organisers shall be required, immediately following the end of the race, to transmit to **UCI** headquarters by telefax or e-mail the list of starters and complete results. For stage races and multi-race championships, this information shall be transmitted within 72 hours of the end of the last stage, or championship event.

The national federation of the organiser of the event shall also, within 72 hours of the final decision, communicate the downgrading of a rider to IPC headquarters. As a general practice, all national federations shall immediately communicate any facts or decisions that could result in an amendment to the points obtained by a rider.

Should any such information not be transmitted as indicated, the **UCI** may declassify the race in question or exclude it from the calendar, notwithstanding any other penalties provided for in the regulations.

(text modified on 26.06.07).

- 16.19.007 The **para-cycling** road and track individual ranking and the rankings by nation shall be drawn up at least twice a month.

If need be, the ranking of preceding months will be corrected.

(text modified on 26.06.07).

- 16.19.008 The **UCI** shall award prizes to riders, in accordance with such criteria as it may establish and with their placing within the system of ranking.

Should the ranking be rectified, prizes already awarded shall be returned and given to the entitled athletes according to the revisited rankings.

(text modified on 1.01.04 ; 26.06.07).

XX

Chapter QUALIFYING EVENTS

- 16.20.001 **Under review by the UCI para-cycling commission. Will be available in 2008 at www.uci.ch.**

XXI

Chapter INDIVIDUAL RANKINGS

- 16.21.001 **Under review by the UCI para-cycling commission. Will be available in 2008 at www.uci.ch.**

XXII

Chapter PARALYMPIC GAMES

16.22.001 Participation in cycling competitions at the Paralympic Games shall be governed by the rules of the International Paralympic Committee (IPC) and of the UCI.

Participation in the Paralympics shall imply acceptance and respect of the IPC **rules** and UCI **regulations** rules by the rider and any other **license** holder.

(text modified on 26.06.07).

Entries – Confirmation of starters

16.22.002 The national paralympic committees shall enter their athletes in accordance with the participation limits, qualifying and reserve system approved by the IPC.

According to IPC rules, each NPC shall inform the organising committee of the names of its athletes within the deadline fixed by the IPC.

Participation

16.22.003 To take part in the Paralympics, each rider shall:

- hold a UCI licence issued by a national cycling federation
- be at least 18 years old for both track and road events, or reach this age in the year of the Paralympics.
- hold a **para**-cycling international functional classification designated PPS (Paralympic Permanent Status) or RS (Review Status)

(text modified on 26.06.07).

Paralympic road race circuits

16.22.004 Road race circuits for the Paralympic Games shall be a minimum of 7 km, with 10 km recommended.

XXIII

Chapter PARA-CYCLING TECHNICAL NOTES

16.23.001 All technical notes carry the same authority as **UCI regulations**. The technical notes will be subject to continuous revision by the **UCI management committee**, to reflect technological advances in world cycling and changes to UCI regulations.

(text modified on 26.06.07).