



,55

79 ., 25 , 27 , 1

TriLap

ProChip Flex,

FinishLynx EtherLynx Vision PRO,  
MyLaps  
LYNX.

AutoCAD.

131901,78

- 1 : [ ]. - , 2025. - URL: <https://ridepro31.tb.ru/page7> ( : 15.02.2025).
- 2 : [ ]. - , 2025. - URL: <https://alvin-almazov.ru/rules/roller-sport-discipliny-sorevnovaniya-i-ix-pravila-ocenivanie-sudejstvo/> ( : 15.02.2025).
- 3 : [ ]. - , 2025. - URL: <https://rollbay.ru/poleznye-stati/roller-sport/#sl2> ( : 15.02.2025).
- 4 : [ ]. - , 2025. - URL: <https://www.biathlonworld.com/ru> ( : 15.02.2025) .
- 5 : 60 « » , 2021.
- 6 : [ ]. - , 2025. - URL: <https://www.rollersport.ru/documents/common/2022/20220209%20POEKT%20POEP%20TPEK.pdf> ( : 15.02.2025).
- 7 : [ ]. - , 2025. - URL: <https://ru.wikipedia.org/wiki/> ( : 15.02.2025) .
- 8 : [ ]. - , 2025. - URL: <https://ru.avkgroup.at/articles/sistemy-sudejstva-i-hronometrazha> ( : 16.02.2025).
- 9 : , , 2020.
- 10 : [ ]. - , 2025. - URL: [https://rep.bntu.by/bitstream/handle/data/15i464/Avtomatizirovannye\\_sistemy\\_sudejstva.pdf](https://rep.bntu.by/bitstream/handle/data/15i464/Avtomatizirovannye_sistemy_sudejstva.pdf) ( : 16.02.2025).
- 11 : [ ]. - , 2025. - URL: <https://habr.com/ru/articles/435830/> ( : 16.02.2025) .

- 12 : [ ]. - , 2025. - URL: [https://zscomp.ru/news/Rezervirovanie\\_setevogo\\_oborudovaniya\\_text/](https://zscomp.ru/news/Rezervirovanie_setevogo_oborudovaniya_text/) ( : 16.02.2025).
- 13 Siemens S7 : [ ]. - , 2025. - URL: <https://www.siemens-pro.ru/components/s7-1200.htm/> ( : 16.02.2025).
- 14 Mylaps Transponders : [ ]. - , 2025. - URL: <https://mylaps.com/transponders/> ( : 16.02.2025).
- 15 EtherLynx Vision: [ ]. - , 2025. - URL: <https://fmishlynx.com/ru/product/cameras/etherlynx-vision-photo-finish-camera/> ( : 16.02.2025).
- 16 FinishLynx Photo-Finish Timing Software [ ]. - , 2025. - URL: [https://lsys.by/katalog/istochniki\\_bespereboynogo\\_pitaniya/5px2200irtn\\_ibp\\_eaton\\_5px\\_rt2u\\_netpack\\_2200va\\_1980vt\\_setevaya\\_karta\\_zhk\\_abm.html](https://lsys.by/katalog/istochniki_bespereboynogo_pitaniya/5px2200irtn_ibp_eaton_5px_rt2u_netpack_2200va_1980vt_setevaya_karta_zhk_abm.html) ( : 26.04.2020).
- 17 EATON 5 [ ]. - , 2025. - URL: [https://lsys.by/katalog/istochniki\\_bespereboynogo\\_pitaniya/5px2200irtn\\_ibp\\_eaton\\_5px\\_rt2u\\_netpack\\_2200va\\_1980vt\\_setevaya\\_karta\\_zhk\\_abm.html](https://lsys.by/katalog/istochniki_bespereboynogo_pitaniya/5px2200irtn_ibp_eaton_5px_rt2u_netpack_2200va_1980vt_setevaya_karta_zhk_abm.html) ( : 26.04.2020).
- 18 Victron Energy Smart LiFeP04 12,8V 100Ah : [ ]. - , 2025. - URL: <https://www.europe-solarstore.com/victron-energy/victron-lithium-smart-batteries/victron-lifepo-battery-12-8v-50ah-smart.html> ( : 16.02.2025).
- 19 44 RU WRK-SA Series 24-1/4 Inch Wide Rack : [ ]. - , 2025. - URL: [https://www.legrandav.com/products/racks/floor\\_standing/wrk-sa Rack/wrk-44sa-321rd](https://www.legrandav.com/products/racks/floor_standing/wrk-sa Rack/wrk-44sa-321rd) ( : 17.02.2025).
- 20 LC Duplex GOF [ ]. - <https://lappkabel.nt-rt.ru/images/manuals/k4-6.pdf> ( : 17.02.2025).
- 21 INDU-ELECTRIC 3525TI: [ ]. - , 2025. - URL: <https://www.daktronics.com/web-documents/specs/dd4008961.pdf> ( : 17.02.2025).
- 22 : [ ]. - , 2025. - URL: <http://www.xn—80aacyeau1asblh.xn—1ai/reference/terminology/144-ibp-ups> ( : 26.04.2020).

- 23 Daktronics Galaxy GT6 [ ]. -  
: [https://www.daktronics.com/web-documents/specs/dd4008961 .pdf](https://www.daktronics.com/web-documents/specs/dd4008961.pdf)-  
: 17.02.2025.
- 24 44 RU WRK-SA Series 24-1/4 Inch Wide Rack  
[ ]. - : [https://www.legrandav.com/products/  
racks/floor\\_standing/wrk-sa Rack/wrk-44sa-321rd](https://www.legrandav.com/products/racks/floor_standing/wrk-sa Rack/wrk-44sa-321rd) - : 17.02.2025.
- 25 : 33 30.04.2013:
- 30.04.2013 105. - , 2013. - 26 .
- 26 : 12.1.007-76. - . 10.03.1976. - . :  
, 1976. - 3 .
- 27 , , : 4.02.01-  
03. - (
- 2.04.05-91) - :  
, 2003. - 78 .
- 28 : 2.04.07-86(2000). - ,  
( 2.04.07-86) - :  
, 2000. - 112 .
- 29 : 45-2.04-196-2010. - ,  
( 2.04.05-98) - :  
, 2010. - 94 .
- 30 , , : 115  
16.11.2011. -
- 16.11.2011 115 - :  
, 2011. - 20 .
- 31 : 45-2.04-153-2009 (02250). - ,  
( 2.04.05-98) - :  
, 2009. - 103 .
- 32 , , : 45-2.02-142-2011 (02250). -  
( 2.02.01-98) - :  
, 2011. - 25 .

- 33 , , : 115  
16.11.2011. - 16.11.2011 115 - :  
, 2011. - 9 .
- 34 , , : 45-2.02-142-2011 (02250).  
- : ( 2.02.01-98) - :  
, 2011. - 25 .
- 35 : [ ]. - , 2025. - URL:  
<https://otb.by/news/4245-o-ns-pri-ekspluatacii-oborudovanija> ( :  
24.02.2022).
- 36 : 2.02.05-2020. -  
, 2020. - 13 .
- 37 : 2.04.03-2020. - (  
30.09.2020
- 70) - :  
, 2021. - 11 .
- 38 : 2.2.4/2.1.8.9-36-2015. -  
(  
2.2.4/2.1.8.9-36-2002\*) - : ,  
2015.-54 .
- 39 (
- «  
») : - :  
, 2017. - 40 .
- 40 : 127 16.12.2013. - , 2013. - 26 .
- 41 :  
339-2011. - (
- ) - : , 2011. - 614 .
- 42 : 2.02.03-2019. -  
(
- 45-2.02-317-2018 (33020)) - :  
, 2019. - 81 .

- 43
- 44 : [ ]. - , 2014. - 46 .
- 45 : [ ]. - , 2025. - URL: <https://mshp.gov.by/printv/ru/trud-ru/view/tarifnaja-setka-dlja-oplaty-truda-rabotnikov-bjudzhetnyx-organizatsij-i-inyx-organizatsij-poluchajuschix-8647/> ( : 23.03.2025).
- 46 : [ ]. - , 2025. - URL: <https://pravo.by/novosti/novosti-pravo-by/2024/october/79353/> ( : 23.03.2025).
- 47 : [ ]. - , 2025. - URL: [https://rep.bntu.by/bitstream/handle/data/5774/Analiz%20i%20menejment%20proekt\\_a\\_UMK.pdf?sequence=1&isAllowed=y](https://rep.bntu.by/bitstream/handle/data/5774/Analiz%20i%20menejment%20proekt_a_UMK.pdf?sequence=1&isAllowed=y) ( : 25.03.2025).
- 48 : [ ]. - , 2025. - URL: <https://economist.academic.ru/677/> ( : 25.03.2025).
- 49 : [ ]. - , 2025. - URL: <https://assistentus.ru/buhuchet/obshcheoproizvodstvennye-rashody/> ( : 25.03.2025).
- 50 : [ ]. - , 2025. - URL: <https://assistentus.ru/buhuchet/obshchehozyajstvennyh-rashodov/> ( : 25.03.2025).
- 51 : [ ]. - , 2025. - URL: <https://www.gd.ru/articles/9467-proizvodstvennye-zatraty> ( : 25.03.2025).
- 52 : [ ]. - , 2025. - URL: <https://assistentus.ru/buhuchet/zatraty-na-perevozku-gruzov/> ( : 25.03.2025).
- 53 : [ ]. - , 2025. - URL: <https://assistentus.ru/buhuchet/kalkulyaciya-sebestoimosti/> ( : 25.03.2025).
- £4 : [ ]. - , 2025. - URL:

[https://vuzlit.com/1637503/kalkulyatsiya\\_sebestoimosti\\_soderzhaniya\\_osnovnogo\\_oborudovaniya\\_raschet\\_ekspluatatsionnyh\\_zatrat](https://vuzlit.com/1637503/kalkulyatsiya_sebestoimosti_soderzhaniya_osnovnogo_oborudovaniya_raschet_ekspluatatsionnyh_zatrat) ( : 27.03.2025).

55

[ ]. - , 2025. - URL:  
[https://studbooks.net/2170733/ekonomika/raschet\\_rashoda\\_soderzhanie\\_oborudovaniya](https://studbooks.net/2170733/ekonomika/raschet_rashoda_soderzhanie_oborudovaniya) ( : 27.03.2025).