**Skills catalogue**

**Discipline no. 3: ”DISEASES OF SWINE”**

Swine Disease Specialist:

* knows the principles of effective pig breeding
* knows the principles of farrow-to-finish pig production and pig health management
* knows the rules of production in batch farrowing systems
* knows the rules of genetic program
* has the ability to select pigs for reproduction and their genetic background
* has knowledge of Polish legal regulations and EU veterinary law
* has basic knowledge of administrative law and administrative procedure
* has knowledge on swine diseases which are subjected to compulsory eradication
* has knowledge of disinfecting livestock premises, farm equipment as well as deratisation and disinfestation
* has knowledge of the correct location of farms and their impact on the environment
* has knowledge of the biosecurity of pig farms, including applicable law
* knows the principles of optimal feeding of pigs
* knows the regulations concerning the welfare of pigs
* knows the basic rules of introducing animals to the herd (quarantine, acclimatization)
* has the ability to assess the quality of feed and knows how to send samples of feed for laboratory tests
* has the ability to properly perform an necropsy of pigs
* knows the rules of collecting and sending material for laboratory tests, and is able to interpret the results of serological, bacteriological, virological, molecular, histopathological, parasitological and other tests
* knows the etiology and pathogenesis of pig diseases
* is able to recognize pig diseases based on clinical symptoms, necropsy and laboratory results
* is able to recognize diseases that are subject to compulsory eradication or registration
* has the ability to develop swine disease control programs
* can plan specific prophylaxis of pig diseases
* knows how to choose the best method of therapy and administration of drugs
* knows the rules of feed production, including medicated feed
* has knowledge of the use of hormonal veterinary products
* knows the principles of antibiotic therapy in pigs, including the prudent use of antibiotics
* has knowledge of the side effects of chemoprophylaxis, side effects of drugs, and pharmacological interactions
* has knowledge related to pig reproduction, including biotechnology of pig reproduction
* can collect and evaluate boar semen
* is able to perform an ultrasound examination for pregnancy
* has knowledge of immunological mechanisms
* knows the principles of pig anesthesia for surgical procedures
* has the ability to perform basic surgical procedures (caesarean section, castration , removal of hernias, rectal prolapse correction)