

ADVANCED

Train as an equine performance analyst by ARIONE

		Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	Readings - Self Learning	Arioneo textbooks: <ul style="list-style-type: none">- Heart rate and performance- Locomotion and acceleration				
	Video Class	Welcoming session <ul style="list-style-type: none">- Presentation of everyone- Presentation of the program- Presentation of the elearning platform- Presentation of Assignments- Group Q&A shared sheet				
	E-learning : on-demand virtual class		Speed - Cardiorespiratory system - Locomotion: the basics <ul style="list-style-type: none">- General anatomy- Gait mechanism- Performance indicators- Key figures	How to read a data report? Diving into parameters <ul style="list-style-type: none">- Interpreting the graphs- Recovery parameters- Workout intensity & effort zones- Locomotor profiles & acceleration strategies- Comparison tool- Different types of parameters and their calculations		Equine physiology applied to athlete horse training <ul style="list-style-type: none">- Cardiovascular & respiratory system and how they interact- Energy production mechanism
	Quiz		Quiz	Quiz		Quiz
	Assignments				Choose the right parameters for each trainer type considering their constraints	
		Monday	Tuesday	Wednesday	Thursday	Friday
Week 2	Readings - Self Learning	Arioneo textbooks: <ul style="list-style-type: none">- Speed analysis in training and racing Videos: <ul style="list-style-type: none">- Data & future performers <ul style="list-style-type: none">- How to set up a data science unit in a horse racing stable				
	Video Class			Longitudinal analysis <ul style="list-style-type: none">- What to look for when building a report for a horse?- How to leverage a database Guest speakers		
	E-learning : on-demand virtual class	Data analysis in practice: How to write the perfect Flash Analysis? <ul style="list-style-type: none">- What parameters to highlight for an efficient analysis- How to adapt your analysis to your audience- Synthesizing the data	(Optional) Excel for beginners		Excel and mathematics basics <ul style="list-style-type: none">- The mathematics behind Arioneo parameters (recovery models, stride calculations, automatic adjustments)- Building an Excel dashboard for visual and automated reports- Big data analysis	Horse anatomy and the effect of training on the horse's tissues <ul style="list-style-type: none">- Type of muscles- How to develop specific muscle fibers for a racehorse- Improving metabolism with training
	Quiz	Quiz			Quiz	Quiz
	Assignments		5 Flash Analysis			

Note that quizzes and readings can be done anytime of the week. Live class are not mandatory and recording is available on the e-learning platform.

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Week 3	Readings - Self Learning	Arioneo textbooks: - Pathology analysis Videos: - Understanding and investigating a poor performance - Horse injuries, how do they occur? - How to avoid horse injuries?				
	Video Class		Advanced sports science: - Identifying track preference - V200 and V4 calculations - Future developments Guest speakers			
	E-learning : on-demand virtual class	Common pathologies of the athlete horse and how to detect them in the data - The most common pathologies of the athlete horse - Using data to prevent injuries			Training for performance - Theory vs Reality - Best theoretical training plans (managing workload, effort tests) - Why is it not always suited and how to best adapt	Everything we cannot control, why horse data science will never be a predictive science - External parameters impacting horse training - How to integrate them into your analysis - Communicating uncertainty with a racing team
	Quiz	Quiz			Quiz	Quiz
	Assignments			Make a presentation for a horse longitudinal followup		Bonus: Additional practical case
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Week 4	Readings - Self Learning	Arioneo textbooks: Communicating in the racehorse industry Videos: How do horses create energy? How to get the most of each horse?				
	Video Class			Tutoring Live Class: optional Live session to come back on previous assignments and clarify some topics. Brief assignments W4		Tutoring & Assignment presentation "My role in equine performance innovation" and goodbye session
	E-learning : on-demand virtual class		The ECG during effort: why looking at it and basic interpretation pre-vet exam - ECG basic knowledge - Alert signs of cardiac pathologies - Arrhythmias, signal correction and noise detection		How to embark a racing team on a data journey? - Developing data-driven and individualized training plans - Getting accomplices on the field and training them - Adapting your communication and analysis formats	
	Quiz		Quiz		Quiz	Survey
	Assignments	Build your ideal monthly dashboard for performance and health monitoring of a stable on Excel				

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