DC4K Online Bundle A Series Schedule

Module One: Part One (2 hours)

15 min:	Orientation to course structure, introduction, course overview
15 min:	Conceptual introduction to a neuromuscular, dynamic
	approach to central stability with a focus on the diaphragm
	as the link between multiple systems that influence postural
	control.
30 min:	Evidence and theory for framework for discussion of a
	functional definition of the core: Teamwork (diaphragm, TA,
	pelvic floor), alignment (optimizing availability) and
	preparation (anticipatory control), definition of core strategy
15 min:	Postural control research in CP, DCD and ASD
15 min:	Multi-systems discussion of typical motor development birth to
	24 months with focus on alignment and development of inner
	core team and outer core postural synergists
15 min:	Multi-systems discussion of atypical motor development
	addressing alignment disruptions beginning at birth and
	immediate and long term compensations for decreased
	central stability against gravity, implications of these
	compensations for motor function, video analysis
	demonstrating compensations in pediatric clients, clinical
	questions and answers
15 min:	Interdependence of core stability and sensory processing,
	impact of vestibular system on development of core stability,
	clinical questions and answers

Module Two: Alignment (approx. 1.5 hours)

15 min:	Alignment as access to optimized muscular
	recruitment, multiple systems and inputs to the brain
15 min:	Re-framing an understanding of Upper Quarter and Lower
	Quarter contribution to alignment (ribcage/pelvis) vs.
	lumbo/pelvic position only, contribution of rib cage position
	to alignment in clinical presentation, new definition of
	alignment presentation
30 min:	Demonstration via lecture and video of detailed alignment
	screen and application to pediatric clients and discussion of
	range of neutral alignment, alignment self-lab instructions
30 min:	Demonstration of optimized alignment, clinical insights in
	pediatric clients, instructions for alignment self-corrections lab

Module Three: Diaphragm (approx. 1 hour)

- 15 min: Anatomical and functional review of the Diaphragm and breath mechanics, dysfunctional dominance patterns: chest, belly and breath holding
- 15 min: Breath mechanics intervention strategies: cueing a balanced breath in children
- 15 min: Dysfunctional dominance patterns: intervention strategies
- 15 min: Video demonstration/analysis of impact of intervention strategies on breath pattern in pediatric clients, clinical questions/answers, breath mechanics self-lab instructions

Module Four: Pelvic Floor/TA (approx. 2.0 hours)

15 min:	Anatomical and functional review of pelvic floor and
	functional partnerships,
15 min	Polyic floor accoss clinical tricks/cuos in standing

- 15 min: Pelvic floor access; clinical tricks/cues in standing
- 30 min: External pelvic floor assessment: palpation, self-palpation and functional movement/test interpretation, application in pediatric clients, pelvic floor self-lab instructions
- 15 min: Addressing pelvic floor in pediatrics, noting the difference between treatment of functional movement vs. continence specifically, pelvic floor intervention strategies in pediatrics via connecting the components of the inner core team
- 30 min: TA anatomical review as it relates to Piston relationships and TA self- lab, clinical questions and answers
- 15 min: Module synthesis via clinical problem solving through analysis of pictures and videos, clinical questions and answers

Module Five: Posterior Oblique Synergist (approx. 2.25 hours)

15 min	Clinical questions and answers, conceptual review with mini-
	case presentation
15 min:	Assessment of seated posture, seated posture self-lab
	instructions
15 min:	Compare and contrast the "anticipatory core" with the
	"reactive core" synergists, relationship to development of
	postural control, integration of alignment, central stability and
	recruitment order into movement
15 min:	Introduction of Posterior Oblique Synergist (POS) anatomy,
	relationship to core stability team and functional movement
60 min:	Posterior Oblique Synergist exercise lab demonstration and
	self-lab instructions
15 min:	Video demonstrations of adaptations to POS
	exercises for children with motor challenges

Module Six: Anterior Oblique Synergist/Lateral Synergist (approx. 1.75 hours)

45 min:	Introduction of Anterior Oblique Synergist anatomy,
	relationship to core stability team and functional
	movement, Anterior Oblique Synergist exercise lab
	demonstration, Anterior Oblique Synergist self-lab instructions,
15 min:	Video demonstrations of adaptations to AOS exercises for
	children with motor challenges; clinical questions and
	answers
30 min:	Introduction to Lateral Synergist anatomy, relationship to core
	stability team and functional movement, Lateral Synergist
	exercise lab demonstration, Lateral Synergist self-lab
	instructions, video demonstration of adaptations to LS
	exercises a child with motor and sensory challenges
15 min:	Pulling it all together: exercise lab demonstration for
	treatment addressing recruitment of inner core stability and
	multiple postural synergists, Pulling it all together self-lab

Module Seven: Case Studies (approx. 1.75 hours)

30 min: Case study for child with CP Hemiplegia, child with Hydrocephalus,

instructions, clinical questions and answers

- 45 min: Clinical group problem solving exercise for a child with High Functioning Autism: Building a treatment program progression
- 30 min: Conceptual review of DC4K alternative neuromuscular model of core stability, clinical questions and answers across multiple clinical populations