Santos® Training Courses

Providing Significant Insight into the Deployment of Santos® Technologies in a Workshop Environment

To date, Santos® technologies represent $50M+ in ongoing R&D funded by Defense and commercial industry. Santos® technologies continue to grow and evolve and the opportunity to be directly involved in the deployment of those technologies with our clients has greatly expanded. This has allowed SantosHuman Inc. (SHI) production staff to develop significant experience, expertise, and insight into the deployment and integration of Santos® technologies within a wide variety of design processes

As SHI's knowledge has become an increasingly valuable asset, not only in the development of in-house Santos® expertise at client sites, but also in the education of potential clients, it has become clear that training courses were needed for effective dissemination of Santos® knowledge, experience, and expertise

Provided through *The Santos® Institute,* **Santos® Training Courses** offers our clients the opportunity to work directly with experts in the use of Santos® technologies through hands-on workshops using real-world use case examples designed cover basic Santos® concepts, conventions, and techniques.

Example Course Curriculum for Santos® Pro

- Interface Basics (initial setup, window docking, project properties, hot keys, 3d interactive tools and concepts, etc.)
- Digital Human Character (avatar) Basics and Associated interactive Tools
- Introduction to Santos® Predictive Models (Basic Concepts, Conventions, and Techniques for Predicting Human Physical Behavior and Performance)
- Use of Santos® Predictive Models as Design Tools (Zone Differentiation, N-Dimensional Task Goal Evaluation, Task Sequencer)
- Introduction to Santos® Predictive Grasp Models (Precision, Power, Whole Body, etc.)

- External Geometry Basics (Import, Export, Scene Graph, hierarchical grouping, translation, rotation, scale, end-user defined range of motion limits, etc.)
- Use and Modification of Avatar Profiles (Strength, Weight, Anthropometry, Flexibility, etc.)
- Santos® Predictive Model Constraints (Obstacle and Self Collision Avoidance, Vision Occlusion Avoidance, Orientation and Direction, etc.)
- Santos® Analysis Suite including the World's Most Accurate, Most Highly Validated Method of Prediction Exposure to Risk of Injury
- Advanced (Predictive) Inverse Kinematics

Contact *The Santos® Institute* (institute@santoshumaninc.com) to provide your team with direct access to the World's foremost experts in the development, deployment, and integration of Santos® technologies.

SHI's success is tied directly to our clients' success and **Santos® Training Courses** represent yet another way in which we strive to match our state of the art, human-centric, virtual product design and analysis methods, technologies, and resources with client requirements.