



3D Animation Advanced Level Certification Course Outline

Module 1: Advanced Animation Principles

- First, revise squash and stretch with complex character rigs.
- Next, apply anticipation in high action scenes.
- Then, refine timing for realistic motion flow.
- Finally, polish arcs and spacing professionally.

Module 2: Professional Character Rigging

- First, build advanced skeleton systems carefully.
- Next, create clean control rigs for animators.
- Then, apply IK and FK switching smoothly.
- Finally, test deformation for realistic bending.

Module 3: Facial Animation Mastery

- First, design detailed facial control systems.
- Next, animate lip sync with accurate timing.
- Then, create natural eye and brow movement.
- Finally, polish micro expressions professionally.

Module 4: Advanced Body Mechanics

- First, study real human movement carefully.
- Next, animate weight and balance correctly.
- Then, create dynamic fight sequences smoothly.
- Finally, refine motion for realism.

Module 5: Cinematic Camera Animation

- First, set up advanced cinematic cameras.
- Next, animate smooth tracking shots confidently.
- Then, create dramatic zoom effects carefully.
- Finally, polish scene transitions professionally.

Module 6: Lighting and Rendering

- First, design realistic lighting setups clearly.
- Next, apply shadows for depth control.
- Then, adjust render settings for quality.
- Finally, optimize scenes for faster output.

Module 7: Physics and Simulation

- First, apply cloth simulation accurately.
- Next, create realistic hair dynamics smoothly.
- Then, use rigid body physics correctly.
- Finally, refine particle simulations carefully.

Module 8: Environment Animation

- First, build detailed 3D environments professionally.
- Next, animate natural elements like wind.
- Then, create realistic destruction effects carefully.
- Finally, polish environment interaction smoothly.

Module 9: Motion Capture Integration

- First, import motion capture data correctly.
- Next, clean unwanted motion noise carefully.
- Then, refine keyframes for accuracy.
- Finally, blend mocap with manual animation smoothly.

Module 10: Advanced Texturing

- First, create high resolution textures professionally.
- Next, apply UV mapping carefully.
- Then, use shaders for realistic surfaces.
- Finally, optimize textures for rendering speed.

Module 11: Production Pipeline Workflow

- First, organize project files systematically.
- Next, follow studio pipeline standards strictly.
- Then, collaborate with modeling teams efficiently.
- Finally, deliver final shots on deadline.

Module 12: Certification and Final Project

- First, complete an advanced animation project independently.
- Next, present your project professionally.
- Then, pass the final practical evaluation successfully.
- Finally, receive your Advanced 3D Animation Certificate.

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