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Knowledge Fusion

Indepth coverage of language construct, object creation, math, trigonometric functions, list handling, loops, methods & functions, file handling, Indepth 3D, Expression based modeling, UIStyler, NX file operations, Excel connectivity, adv aerospace modeling.

78 topics, 78 labs

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| 1. Introduction to KF: Objects and Classes. | 13. Handling lists, List processing, DemandValue | 25. Cyclic Calculations using Child Lists |
| 2. Attributes. Using absolute coordinates. | 14. Adv list procesing, Printing to NX info window | 26. Quering objects using ug_curve_Ask* functions |
| 3. Attribute Stringing technique. | 15. Advanced list processing functions | 27. Understanding Loops in KF |
| 4. Creating 2D objects. | 16. ug_printMessage, 3D Point functions | 28. Expression Blocks |
| 5. Using vectors | 17. The ug_infoDialog, Getting user input | 29. KF Functions , Passing variables, Return types |
| 6. Modifiable Variables, Return types | 18. Making decisions, If-Else structure | 30. Methods |
| 7. Creating circular objects, Angle conventions | 19. Controlling object size from user interaction | 31. Math functions |
| 8. Understanding lists, Creating splines | 20. Controlling Class via infoDialog | 32. Date and time functions |
| 9. Advanced lists, Creating closed splines | 21. Precision Math functions | 33. System functions |
| 10. Creating Text objects, controlling placement, color, height, etc. | 22. Understanding Child Lists | 34. Environment functions |
| 11. Vector calculations, formatting numbers and text | 23. Using Child Lists as attribute values | 35. OS Functions |
| 12. Trigonometric functions in KF | 24. Trigonometric funtions using Child Lists | 36. Determining data types |

37. ug_invokeBrowser function and its applications	51. How to use the operation property	65. UIStyler, how to implement and code for Toggles
38. More OS functions	52. Orienting 3D objects using vectors	66. UIStyler, how to invoke file selection dialog and folder browser dialog
39. Read simple data files using KF	53. Using Child Lists to create composite 3D objects	67. Creating intelligent parts using expressions and UIStyler
40. Writing out data files from KF	54. Defining and extruding 2D profiles to create 3D objects	68. Creating and controlling parametric parts from KF
41. Appending files, how to properly format output files	55. File Operations, Creating New Parts	69. UIStyler, Object selection and how to use selection mask to filter objects
42. Creating basic 3D objects	56. Creating Blends, How to use ug_body* and ug_face* functions	70. UIStyler, how to Hide show controls during execution
43. 3D Objects, Defining Reference Frames	57. Creating CBore and CSink holes	71. UIStyler, how to enable/disable controls during execution
44. 3D Objects, Origin and Re-orienting Reference Frames	58. Creating Thru holes and v-bottom holes	72. File Operations, Opening existing parts
45. 3D Objects, How to use the Frame3Point function	59. Read data from text files to create holes on solids	73. File Operations, Saving Part file in Nx from KF
46. 3D Objects, Suppress and unSuppress	60. Create holes from external point data, advanced loop and list usage	74. File Operations, Check Current Work Part
47. The ug_body function, setting object color, obtaining volume	61. Controlling Nx Expressions from KF	75. File Operations, Check Current Layer
48. More 3D objects	62. UIStyler, Creating dialog boxes, How to pick points from a dialog box	76. File Operations, Check Current Part Units
49. Changing origin of 3D objects	63. UIStyler, accessing Nx Vector and CS constructors from KF dialogs	77. Assembly Building, How to correctly place parts in the new assembly
50. The ug_boolean class, how to boolean solids	64. UIStyler, how to use real and integer scales, sliders	78. Creating an Aircraft wing from point data from Excel files. Example program: Aircraft wing

Other training programs from CADVertex:

- ❖ **CATIA CAA:** VB 6.0, C#, VB.Net, C++ and MFC
- ❖ **NxOpen:** VB.Net, C#
- ❖ **Inventor customization:** VB 6.0, C#, VB.Net, C++ and MFC

- ❖ **Solid Edge customization:** VB 6.0, C#, VB.Net, C++ and MFC
- ❖ **SolidWorks Customization:** VB 6.0, C#, VB.Net, C++ and MFC
- ❖ **AutoCAD Customization:** AutoLISP, Visual LISP, C#, VB.Net, VBA