**NX Open Programming**

### Module 1: NX OPEN CONCEPT

[1.Sessions and Parts](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Sessions%20and%20Parts.html)

[2.Objects and Tags](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Objects%20and%20Tags.html)

[3.Factory Objects](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Factory%20Object.html)

[4.Object Collections](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Object%20Collections.html)

[5.The Builder Pattern](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Builder.html)

[6.Exploring NX Open by Journaling](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%201\Exploring%20NX%20Open%20by%20Journaling.html)

### Module 2: POINTS, VECTORS & MATRIX

[1.Point3d Objects](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%202\Point%203d.html)

[2.Vector3d Objects](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%202\Vector%203d.html)

[3.Smart Points](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%202\Smart%20Point.html)

[4.3×3 Matrix](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%202\3x3%20Matrix.html)

[5.NX Matrix](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Introduction.html)

[6.Coordinate Systems](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%202\Coordinate%20System.html)

### Module 3: CURVES

[1.Lines](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%203\Line.html)

[2.Associative Line Features](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%203\AssociativeLineFeature.html)

[3.Arcs and Circles](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%203\Arc.html)

[4.Associative Arc Features](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%203\Associative%20Arc%20Features.html)

### Module 4: SIMPLE SOLIDS & SHEETS

[1.Creating Primitive Solids](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%204\Creating%20Primitive%20Solids.html)

[2.Cone](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%204\Cone%20Builder.html)

[3.Cylinder](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%204\Cylinder%20Builder.html)

[4.Sphere](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%204\Sphere%20Builder.html)

[5.Extrude Bodies](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%204\Sphere%20Builder.html)

### Module 5: OBJECT PROPERTIES

[1.NXObject Properties](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%205\Nx%20Object%20and%20Properties.html)

[2.Curve and Edge Properties](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%205\Curve%20and%20Edge%20Properties.html)

[3.Face Properties](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%205\Face%20Properties.html)

### Module 6: UNITS & EXPRESSIONS

[1.Units](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%206\Units.html)

[2.Expressions](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%206\Expression.html)

[3.Creating Expressions](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%206\Create%20Expression.html)

### Module 7: DRAWINGS & ANNOTATIONS

[1.Drawings](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%207\Drawing.html)

[2.Sheets & Sheet Properties](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%207\Sheet%20Properties.html)

[3.Views & View Properties](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%207\Views.html)

[4.Base view, Projected Views](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%207\BaseView.html)

[5.Dimensions (Linear, Radial, Angular)](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Introduction.html)

[6.Notes](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%207\Note.html)

### Module 8: OBJECT SELECTION & FILTERS

[1.Selection Dialogs](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%208\Selection%20Dialogs.html)

[2.Face Selection](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%208\Selecting%20Faces.html)

[2.Curve and Edge selection](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%208\Selecting%20Curve%20and%20Edges.html)

[4.Selection by Database Cycling](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%208\Selection%20by%20Database%20Cycling.html)

### Module 9: TROUBLESHOOTING

[1.Using the NX Log File](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%209\Using%20Nx%20Log.html)

[2.Invalid Attempt to Load Library](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%209\Invalid%20Attempt%20to%20Load%20Library.html)

[3.Is not a member of NX Open](file:///C:\Users\salunah\OneDrive%20-%20Kennametal%20Inc\Desktop\Web\NX%20Open%20Programming\Programming%20files\Module%209\Using%20Nx%20Log.html)