



This course covers the following topics (any items marked with a \* will be covered if time allows):

<b>Designing classes</b> <ul style="list-style-type: none"><li>• The domestic cat object</li><li>• Properties and methods</li><li>• Encapsulation and exposure</li></ul>	<b>LINQ theory</b> <ul style="list-style-type: none"><li>• Extension methods</li><li>• lenumerability</li><li>• Query vs. method syntax</li></ul>	<b>LINQ with Entity Frameworks</b> <ul style="list-style-type: none"><li>• Creating a data context</li><li>• Selecting data using LINQ</li><li>• Using relationships (associations)</li><li>• Adding, editing and deleting</li></ul>
<b>Creating classes</b> <ul style="list-style-type: none"><li>• Using namespaces</li><li>• Creating constructors</li><li>• Fields, properties and methods</li><li>• Static members</li></ul>	<b>Writing LINQ</b> <ul style="list-style-type: none"><li>• Arrays, lists and data tables</li><li>• Criteria and ordering</li><li>• Using LET expressions</li></ul>	<b>Advanced LINQ with EF</b> <ul style="list-style-type: none"><li>• Returning anonymous types</li><li>• Using stored procedures</li><li>• Extending (partial classes)</li></ul>
<b>The form as a class</b> <ul style="list-style-type: none"><li>• Partial classes</li><li>• InitializeComponent method</li><li>• Instantiating forms</li></ul>	<b>Advanced LINQ</b> <ul style="list-style-type: none"><li>• Projecting data</li><li>• Anonymous types</li><li>• Forcing query execution</li><li>• Taking and skipping</li></ul>	<b>Grouping using LINQ (*)</b> <ul style="list-style-type: none"><li>• IGrouping and IEnumerable</li><li>• Grouping keys</li><li>• Group into and ordering</li><li>• Using multiple keys</li></ul>
<b>Data structures</b> <ul style="list-style-type: none"><li>• Generics</li><li>• Arrays</li><li>• Lists, stacks and queues</li><li>• Dictionaries</li></ul>	<b>Types of model</b> <ul style="list-style-type: none"><li>• Code first</li><li>• Model first</li><li>• Database first</li></ul>	
<b>Overloading</b> <ul style="list-style-type: none"><li>• Overloaded methods</li><li>• Overloading constructors</li></ul>	<b>Entity Frameworks</b> <ul style="list-style-type: none"><li>• Creating entity data models</li><li>• Data contexts</li><li>• Updating models</li></ul>	

Maximum 6 people per course. Scheduled classroom courses include lunch at a local restaurant; you can see how our online training works [here](#). For more information, see <https://www.wiseowl.co.uk/>.