



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

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

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/>.