# Overview

Allow a programmer to start using the CU Toolkit.

# Part 1

## Introduction

* + [CU Toolkit Manual](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Reference%20-%20CUToolkit%20Reference%20Manual.doc)
* [Synergy Data Language](https://www.synergex.com/docs/versions/v111/index.htm#rps/6_SDL.htm)
* Template Definitions:
  + …\Synergy\Schemas\template.template
* Data Types:
  + …\Synergy\RecordLibrary\datatypes.def

# Part 2

## Data Access Overview

* + [CU Toolkit Training – 1](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%201.pptx)
  + [CU Toolkit Training – 2](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%202.pptx)
  + [CU Toolkit Training – 3](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%203.pptx)
    - Exercise – 1
    - Exercise – 2

## Database How To

* + [Audit Trigger Generator](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Audit%20Trigger%20Generator.docx)
  + [Create Support and External Views](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Create%20Support%20and%20External%20Views.docx)
  + [Data Distribution User Documentation](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Data%20Distribution%20User%20Documention.doc)
  + [Determine Column Nullability](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Determine%20Column%20Nullability.vsd)
  + [Modify SQL Table Creation Script](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Modify%20SQL%20Table%20Creation%20Script.doc)
  + [Profile Expensive Queries](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Profile%20Expensive%20Queries.docx)
  + [Set Up Data Dictionary Context Menu](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20How%20To%20-%20Set%20Up%20Data%20Dictionary%20Context%20Menu.docx)

## Database Reference

* + [Data Object XML Tags](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Data%20Object%20XML%20Tags.docx)
  + [Database Design](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Database%20Design.doc)
  + [Developer Notes](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Developer%20Notes.docx)
  + [Migrate Data Access Processing Tags](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Migrate%20Data%20Access%20Processing%20Tags.docx)
  + [Table Normalization Procedures](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Table%20Normalization%20Procedures.docx)
  + [Tablediff Data Access Processing Tags](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Tablediff%20Data%20Access%20Processing%20Tags.doc)
  + [Tablediff Functions and Limitations](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20Tablediff%20Functions%20and%20Limitations.doc)
  + [What is Normalization](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20What%20is%20Normalization.doc)
  + [XML Schema Collections In SQL](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Database%20Reference%20-%20XmlSchemaCollectionsInSQL.docx)

## Introduction to TIMS traditional Synergy data access routines.

* + Code walkthrough

# Part 3

## Basic Overview

* + [CU Toolkit Training – 4](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%204.pptx)

## Database How To

* + [CU Toolkit Training – 5](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%205.pptx)
    - Demo program Walkthrough
    - Exercise – 3
    - Exercise – 4
    - Exercise – 5

## Methods overview

* + [CU Toolkit Training – 6](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%206.pptx)
    - Exercise – 6
    - Exercise – 7

# Part 4

## Listing

* + [CU Toolkit Training – 7](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%207.pptx)
    - Code walkthrough
    - Exercise – 8

## Drill Methods

* + [CU Toolkit Training – 8](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Synergy%20Training%20-%20CU%20Toolkit/CU%20Toolkit%20Training%208.pptx)
    - Code walkthrough
    - Exercise – 9

# Part 5

## Multiple Screen Program

* + Exercise – 10

## Advanced Topics

* + Exercise – 11
  + List Processing Input