## Student Checklist

has completed the course "Working with Concrete".				
	I have worked with them through the course and I have seen them complete the exercises and activities I have marked on this checklist.			
Tutor	Name			
Signe	ed			
Choos	ing concrete			
	own area, village or island, the student can:			
	Identify the different types of cement and concrete Say how cement and concrete are made Say where their cement, sand and rock come from Choose suitable concrete for a job			
Mi× a	nd lay concrete			
For each	section the student can:			
	Identify the basic tools available Choose and use the best tools for a job Clean tools and equipment after use	0		
Plan f	or concrete			
	Draw a sketch plan for a job  Work out how thick the concrete should be Say when steel reinforcement is needed Decide the type of concrete  Work out the amounts of cement, sand, rock and water			

## Getting a site ready

Prepare th	ie ground	
	Mark the place where the concrete will go Dig out the ground, make it solid and level	
Make the b	boxing (formwork)	
	Build strong timber framing Check frames are level and in the right place	
	Place any underlay or reinforcing	
Mixing	concrete	
	Measure out the correct amounts of water, cement, sand and rock Correctly mix a batch of concrete by hand Correctly mix a batch of concrete in a mixer Follow safety precautions	
Pour a	nd compact concrete	
	Place concrete batches correctly into the formwork  Compact concrete to remove all air bubbles  Screed the concrete to make it level with the formwork	
Finish	and cure concrete	
Say what t	type of surface can be made with each of	
	screed, wooden float, brush, finishing trowel	
	Finish the concrete to the type of surface needed  Make joints in the concrete where needed  Follow correct steps to cure the concrete	
	Remove formwork from finished concrete	

## Introduction to blocks

The stude	nt can:	
	Identify the common types and sizes of blocks available	
	Say where to get blocks from	
	Choose the correct blocks for a job	
Build w	vith blocks	
The stude	nt can:	
	Say what the steps are in building with blocks	
Design	and plan for blocks	
	Know when expert advice is needed in design of block walls	
	Say when reinforcing is needed Say what type and size of foundations are needed	
	Plan how the blocks will fit together	
	Work out the amount and cost of blocks needed for a job	ā
	Ask for expert help with plans at the right time	
Fit blo	cks together	
	Lay dry blocks in different patterns to make a wall	
	Use spirit level and lines to keep the wall level, even and square	
	Cut blocks to size	
Lay blo	ocks with mortar	
	Mix mortar correctly	
	Pick up and spread mortar with a trowel	
	Spread mortar to get correct thickness for a joint	
	Place blocks and level into position	
	Cut off excess mortar	
	Finish joint with a jointing tool	
Fill blo	ocks	
	If required fill the block cores with concrete	