

3-D ARCHERY

A GUIDE TO COURSE DESIGN

TABLE OF CONTENTS

LIST OF FIGURES	2
FORWARD	3
INTRODUCTION	4
CHAPTER 1 - ARROW BALLISTICS; FROM SINGLE SHOT TO COURSE REQUIREMENTS	7
CHAPTER 2 - THE 3-D COURSE; LAYOUT, SAFETY AND SITING	13
CHAPTER 3 - MAPPING THE COURSE	18
CHAPTER 4 - ASSESSING THE COURSE DESIGN	22
CHAPTER 5 - FEATURES; TARGETS AND SETTING THE UNIQUE SHOTS	27
CHAPTER 6 - SIGNS AND SYMBOLS	33
CHAPTER 7 - PUTTING THE COURSE TO USE	36
CHAPTER 8 - THE SHOTS	42
CHAPTER 9 - SUPPLEMENTARY ISSUES; A MEDICAL PLAN, THE ENVIRONMENT, CARE OF PROPERTY	51
ANNEX A - FCA NATIONAL 3-D ROUND RULES	55
ANNEX B - FORMULAE AND TABLES	59
ANNEX C - ASSESSMENT AND INSPECTION CHECKLISTS	66

LIST OF FIGURES

- Figure 1 - Standard shot conditions
- Figure 2 - Maximum ranges based on angle of departure
- Figure 3 - Arrow trajectories; firing uphill or downhill
- Figure 4 - Arrow trajectories; over level, rising and falling ground
- Figure 5 - Archery template
- Figure 6 - Shooting lane
- Figure 7 - The continuous trail archery course
- Figure 8 - The linked trail archery course
- Figure 9 - Example archery course map
- Figure 10 - Freestanding 10-test butt
- Figure 11 - Running bear, moving target
- Figure 12 - Charging bear, moving target
- Figure 13 - Freestanding treestand
- Figure 14 - Queen's treestand
- Figure 15 - Station sign
- Figure 16 - Boundary sign
- Figure 17 - Scorecard (front)
- Figure 18 - Scorecard (back)
- Figure 19 - The Standard shot, variables and calculations