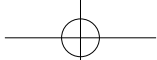
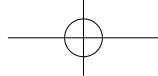


# Contents

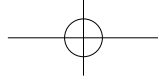
<b>Chapter 1 Introduction</b> .....	1
1.1 Background of the study.....	1
1.2 Statement of the problems and purpose of the study.....	3
1.3 Research questions.....	4
1.4 Organization of the book.....	5
<b>Chapter 2 Towards a theoretical framework for teaching CT in L2 writing</b> .....	9
2.1 The concept of CT.....	9
2.1.1 The definitions of CT.....	10
2.1.2 CT skills and CT dispositions.....	13
2.1.3 The relationship between CT skills and CT dispositions.....	19
2.1.4 Paul and Elder's (2001) CT model.....	20
2.1.5 A definition for CT in L2 writing.....	25
2.2 Theories related to the teaching of CT.....	25
2.2.1 Skill Acquisition Theory.....	26
2.2.2 Constructivism.....	29
2.3 Establishment of a theoretical framework.....	35
2.3.1 The theoretical framework for teaching CT in L2 writing.....	36
2.3.2 The significance of the theoretical framework.....	38
2.4 Design of a CT-oriented L2 writing approach.....	39
2.4.1 Teaching objectives.....	40
2.4.2 Instruction on CT and L2 writing.....	41
2.4.3 CT-oriented activities and writing practice.....	42
2.4.4 Assessing CT in L2 writing.....	44



<b>Chapter 3 Previous studies on teaching CT in writing</b> .....	45
3.1 Why teaching CT in writing.....	45
3.1.1 Teaching CT in L1 writing.....	46
3.1.2 Teaching CT in L2 writing.....	49
3.2 How to teach CT in writing .....	53
3.2.1 Review of empirical studies on teaching CT in L1 writing.....	55
3.2.2 Review of empirical studies on teaching CT in L2 writing.....	74
3.3 Implications for the present research .....	89
3.4 Summary .....	91
<b>Chapter 4 Methodology</b> .....	94
4.1 Research design .....	94
4.1.1 Mixed methods approach .....	95
4.1.2 The mixed methods design of the present study .....	97
4.1.3 Research site.....	99
4.1.4 Participants .....	100
4.1.5 Pilot study .....	102
4.1.6 Instructional intervention .....	102
4.1.7 Instruments .....	103
4.2 Data collection.....	121
4.3 Data analysis.....	124
4.3.1 Analysis of the questionnaire.....	124
4.3.2 Analysis of the pre-test and post-test CT and L2 writing scores.....	125
4.3.3 Analysis of post-study interview, brainstorming worksheets and essay drafts.....	129



<b>Chapter 5 Perceptions of CT and its connection to L2 writing</b> .....	132
5.1 Participants' general knowledge of CT.....	132
5.1.1 Frequency of hearing about CT.....	134
5.1.2 Translation of CT.....	134
5.1.3 Previous experience of formal CT instruction.....	135
5.1.4 Benefits of CT in English learning.....	136
5.1.5 Definition of CT.....	137
5.2 Participants' levels of CT and L2 writing abilities.....	140
5.2.1 Participants' ability of thinking through the CT elements in L2 writing.....	141
5.2.2 Participants' ability of applying the CT standards to L2 writing.....	144
5.2.3 Participants' L2 writing proficiency.....	146
5.3 Participants' pre-study English writing course.....	147
5.4 Participants' perception of the relationship between CT and L2 writing.....	149
5.5 Summary.....	150
<b>Chapter 6 Improvement in CT and L2 writing scores</b> .....	153
6.1 Improvement in CT scores.....	153
6.1.1 Descriptive statistics: CT scores.....	154
6.1.2 Result of ANOVA analysis: CT scores.....	156
6.2 Improvement in L2 writing scores.....	156
6.2.1 Descriptive statistics: L2 writing scores.....	156
6.2.2 Result of ANOVA analysis: L2 writing scores.....	158
6.3 Relationship between CT and L2 writing scores.....	159
6.4 Summary.....	160



<b>Chapter 7 Effects on the learning of CT and L2 writing</b> .....	162
7.1 Effects on the learning of CT .....	162
7.1.1 CT-oriented brainstorming and the learning of CT skills.....	164
7.1.2 CT-oriented peer review and the learning of CT skills.....	172
7.1.3 CT-oriented L2 writing approach and the cultivation of CT dispositions .....	178
7.1.4 Challenges in the learning of CT.....	180
7.2 Effects on the learning of L2 writing.....	182
7.2.1 CT-oriented brainstorming and the learning of L2 writing.....	182
7.2.2 CT-oriented peer review and the learning of L2 writing.....	190
7.3 Summary .....	194
<b>Chapter 8 Conclusion</b> .....	197
8.1 Summary of findings.....	197
8.2 Contributions of the study.....	201
8.3 Pedagogical implications .....	203
8.3.1 Implications for teaching CT in L2 writing .....	203
8.3.2 Implications for assessing CT in L2 writing .....	205
8.4 Suggestions for future research .....	206
<b>References</b> .....	209
<b>Appendices</b> .....	225
Appendix A .....	225
Appendix B .....	229
Appendix C .....	233
Appendix D .....	237
Appendix E .....	239