

# Contents

<b>Preface</b> .....	iii
<b>1. Executive Summary</b> .....	1
<b>2. Introduction</b> .....	2
<b>2.1 Purpose</b> .....	2
<b>2.2 Scope</b> .....	2
<b>2.3 Background</b> .....	3
<b>3. Radiological Risk Classes</b> .....	5
<b>3.1 Class 1: Potentially High Dose Fluoroscopically Guided Interventional Procedures</b> .....	7
<b>3.2 Class 2: General Fluoroscopic Procedures</b> .....	7
<b>3.3 Class 3: Very Low Dose Fluoroscopic Procedures</b> .....	7
<b>4. Fluoroscopic Equipment Types</b> .....	8
<b>5. Training</b> .....	10
<b>5.1 Training Groups</b> .....	10
<b>5.1.1 Training Group A: Operators Who Perform or Supervise Class 1 Procedures</b> .....	11
<b>5.1.2 Training Group B: Operators Who Perform or Supervise Class 2 Procedures</b> .....	11
<b>5.1.3 Training Group C: Operators Who Perform or Supervise Only Class 3 Procedures</b> .....	11
<b>5.1.4 Training Group D: Nonoperators Who Contribute to Patient Radiation Management and are Present While Fluoroscopic Procedures are Being Performed</b> .....	11
<b>5.1.5 Training Group E: Nonoperators Who are Present While Fluoroscopic Procedures are Being Performed and Who Do Not Directly Contribute to Patient Radiation Management</b> .....	12
<b>5.1.6 Training Group F: Individuals Not Designated as Radiation Workers, But Who Might Enter a Room Where a Fluoroscope is Present</b> .....	12
<b>5.1.7 Clinical Training of Course Supervisors and Instructors</b> .....	12
<b>5.2 Content of Radiation Safety Training</b> .....	12
<b>5.3 Training Formats</b> .....	14
<b>5.4 Credit for Prior Initial Training</b> .....	15
<b>5.4.1 General</b> .....	15
<b>5.4.2 Hands-On Operation of Fluoroscopes</b> .....	16
<b>5.5 Training Types</b> .....	16
<b>5.5.1 Initial Training</b> .....	16
<b>5.5.2 Recurrent Training Frequency and Topics for Each Training Group</b> ..	16
<b>5.6 Validation of Training</b> .....	17

<b>6. Future Needs</b> .....	18
<b>Appendix A. Initial and Recurrent Training for Training Group A</b> .....	19
<b>Appendix B. Initial and Recurrent Training for Training Group B</b> .....	29
<b>Appendix C. Initial and Recurrent Training for Training Group C</b> .....	37
<b>Appendix D. Initial and Recurrent Training for Training Group D</b> .....	44
<b>Appendix E. Initial and Recurrent Training for Training Group E</b> .....	51
<b>Appendix F. Initial and Recurrent Training for Training Group F</b> .....	56
<b>Abbreviations, Acronyms and Symbols</b> .....	58
<b>Glossary</b> .....	59
<b>References</b> .....	62
<b>Scientific Committee</b> .....	67
<b>The NCRP</b> .....	71
<b>NCRP Publications</b> .....	80