

# ISO 4980:2023-05 (E)

## Benefit-risk assessment for sports and recreational facilities, activities and equipment

---

Contents	Page
Foreword .....	v
Introduction .....	vi
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Benefit-risk assessment -- Process overview .....	7
4.1 Assessment team .....	7
4.2 Project scope .....	7
4.2.1 General .....	7
4.2.2 External and internal context .....	11
4.2.3 Analytical techniques .....	14
4.2.4 Process .....	14
5 Assessment of benefits and risks .....	21
5.1 Quantitative and qualitative analysis and scales .....	21
5.2 Benefits assessment .....	21
5.2.1 General .....	21
5.2.2 Procedure .....	21
5.3 Risk assessment .....	22
5.3.1 General .....	22
5.3.2 Criteria for risk acceptability .....	22
5.3.3 Hazard identification and analysis .....	22
5.3.4 Likelihood analysis .....	25
5.3.5 Risk evaluation .....	26
5.4 Risk control measures .....	26
5.4.1 Differences of information for safety and disclosure of residual risk .....	26
6 Comparison of benefits and risks .....	27
6.1 General .....	27
6.2 Methodology .....	28
6.2.1 General .....	28
6.2.2 Benefit enhancement .....	29
6.2.3 Risk control .....	29
7 Documentation .....	29
7.1 General .....	29
7.2 Validation .....	30
7.3 Benefit assessments .....	30
7.4 Risk assessments .....	30
7.5 Safety-related information .....	30
7.6 Benefit-risk balance .....	30
7.7 Documentation .....	30
8 Performance and evaluation .....	31
8.1 General .....	31
8.2 Periodic evaluation .....	31

<b>8.2.1</b>	<b>General .....</b>	<b>31</b>
<b>8.2.2</b>	<b>Revision or updating of the benefit-risk assessment .....</b>	<b>31</b>
<b>8.2.3</b>	<b>Action .....</b>	<b>32</b>
<b>9</b>	<b>Training and competency .....</b>	<b>32</b>
<b>9.1</b>	<b>General .....</b>	<b>32</b>
<b>9.2</b>	<b>Training .....</b>	<b>32</b>
<b>9.2.1</b>	<b>General .....</b>	<b>32</b>
<b>9.2.2</b>	<b>Content .....</b>	<b>33</b>
<b>9.3</b>	<b>Frequency of training .....</b>	<b>33</b>
<b>9.4</b>	<b>Equivalency to training .....</b>	<b>33</b>
<b>9.5</b>	<b>Competency .....</b>	<b>33</b>
<b>9.5.1</b>	<b>Persons and teams .....</b>	<b>33</b>
<b>9.5.2</b>	<b>Equivalency .....</b>	<b>34</b>
<b>9.5.3</b>	<b>Organizations .....</b>	<b>34</b>
<b>Annex A (informative)</b>	<b>Examples of severity-of-injury scales .....</b>	<b>35</b>
<b>Annex B (informative)</b>	<b>Risk scoring tools .....</b>	<b>40</b>
<b>Annex C (informative)</b>	<b>Decision-making methods .....</b>	<b>43</b>
<b>Annex D (informative)</b>	<b>Method for determining balance between benefit and risk .....</b>	<b>45</b>
<b>Annex E (informative)</b>	<b>Semi-quantitative benefit methodology example .....</b>	<b>46</b>
<b>Annex F (informative)</b>	<b>UK Play Safety Forum risk-benefit assessment .....</b>	<b>47</b>
<b>Bibliography .....</b>		<b>48</b>