LO3 Tutorial – week 2

Recall LO3: **Given an example system and standard or regulation, justify what evidence would be needed to comply with the regulation or standard.**

The table below lists some relevant software development standards. Recall you can download personal copies of any of these standards at: <https://bsol-bsigroup-com.ezproxy.is.ed.ac.uk/> (you will be required to authenticate to the University to access BSI information).

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| Standard | Medical Device | Generic software |
| Lifecycle | IEC 62304 | ISO 12207 |
| Risk Management | ISO 14971 | ISO 16085[[1]](#footnote-1) |
| quality management | ISO 13485 | ISO 25002 (also 25010, 25019) |

You have already decided on a domain and class of product you are interested in. Here you will consider what is necessary to manage risk in your product. Do the following:

1. Choose one of the three risk management standards considered in this note. Your choice should be relevant to your choice of domain and product.
2. Read your chosen standard. In general these are quite short. Try to look at the Appendices if you can.
3. For your chosen domain and product try to follow the standard to see what kind of risks need to be managed for your system.
4. Consider all the risk management processes and activities. To limit the amount of work, take one or two risks and work through all the activities for these risks. These are the process and activities:
	1. Risk Assessment
		1. Risk identification
		2. Risk analysis
		3. Risk evaluation
	2. Risk treatment
		1. Selection of risk treatment options
		2. Preparing (and implementing) risk treatment plans
5. Document your activities on a new wiki page and discuss with one of your other group members to try to identify gaps or issues in what you have done.
6. We will also consider the ISO 26262 series of standards for automotive systems. This is a specialisation of the ISO 61508 functional safety standard. This uses a risk-based method for allocating different safety integrity levels to components. We will consider:
	1. ISO 26262-2 on the management of functional safety, and
	2. ISO 26262-9 on Automotive Safety Integrity Levels
1. Many of you may be interested in systems with embedded AI components. The risk management standard for this is ISO 23894:2023. [↑](#footnote-ref-1)