



Schedule – Day 1		<u>Riskren</u> [®]		
0830 – 0900	Background and introductions			
0900 – 1230	Biosafety and biosecurity			
	Standards and regulations			
	Principles of containment			
	1230 – 1330 LUNCH			
1300 – 1730	Containment levels and biorisk managem	ent		
	Biorisk management system			
	Risk assessment			
	Biological agents and toxins inventory and information			
	General Safety			
	Personnel & competency			
	Good microbiological technique			
	Clothing & PPE			
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Standards

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In essence, a **standard** is an agreed way of doing something. It could be about making a product, managing a process, delivering a service or supplying materials – standards can cover a huge range of activities undertaken by organizations and used by their customers.

Ref: http://www.bsigroup.com/en-GB/standards/Information-about-standards/what-is-a-standard/

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Guidelines



A guideline is a statement by which to determine a course of action. A guideline aims to streamline particular processes according to a set routine or sound practice. By definition, following a guideline is never mandatory. Guidelines are not binding and are not enforced. Guidelines may be issued by and used by any organization (governmental or private) to make the actions of its employees or divisions more predictable, and presumably of higher quality.

Ref: http://en.wikipedia.org/wiki/Guideline

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Integrity

- Ability to provide an assurance that system will not fail
- Often achieved through testing, alarms and other associated mechanisms
- Need for confidence based upon criticality of system and will be reflected in the standards and test methodologies

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RISK GROUP	BIOSAFETY LEVEL	LABORATORY TYPE	LABORATORY PRACTICES	SAFETY EQUIPMENT
1	Basic – Biosafety Level 1	Basic teaching, research	GMT	None; open bench work
2	Basic – Biosafety Level 2	Primary health services; diagnostic services, research	GMT plus protective clothing, biohazard sign	Open bench plus BSC for potential aerosols
3	Containment – Biosafety Level 3	Special diagnostic services, research	As Level 2 plus special clothing, controlled access, directional airflow	BSC and/or other primary devices for all activities
4	Maximum containment – Biosafety Level 4	Dangerous pathogen units	As Level 3 plus airlock entry, shower exit, special waste disposal	Class III BSC, or positive pressure suits in conjunction with Class II BSCs, double- ended autoclave (through the wall), filtered air

Pathogenicity				<u>Risk</u>	ren
 Pathogenicity is the ability of a biological agent to cause illness 		risk category 1	risk category 2	risk category 3	risk category 4
 Pathogenicity of the infoctious or suspected 	pathogenic	-	possible	possible severe	severe
infectious of suspected infectious agent, including disease incidence and	spreading to population	-	unlikely	likely	very likely
severity (i.e., mild illness versus high mortality,	profylaxe /treatment	-	yes	yes	no
acute versus chronicdisease) is keyAlso may have infection	examples	E.coli K12 Aspergilli Lactobacilli Yeast	Legionella Salmonella Influenza	Coxiella burnetii Brucella Avian Influenza	Variola Lassa virus Ebola virus
without symptoms, but individual still infectious					
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	Risk matrix Risk				<u>Riskren</u>	
			CONSEQUENCE			
	LIKELIHOOD		1. Insignificant	2. Moderate	3. Catastrophic	
	3. Certain		Medium	High	High	
	2. Possible		Low	Medium	High	
	1. Rare Risk Criteria		Low	Low	Medium	
			ia	Description		
			Low risk, accepta	ble with review		
		Medium	Work conducted to zone).	owards reducing the risk	(green	
High			High risk, unacce implementation of risk	ptable. High priority and recommendations to rec	luce the	
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