

## IT security assurance homework

**Description: each participant has to choose or think out a company or body and describe activities and outcomes in approximately 10 pages.**

Activity	Description
Identification of critical business processes, information assets and IT assets	<ol style="list-style-type: none"><li>1. Describe business process, highlight critical information systems;</li><li>2. Identify main information assets and IT assets;</li><li>3. Give asset valuation: confidentiality, integrity, availability;</li><li>4. Conduct business impact analysis (i.e. business processes dependancy on information systems).</li></ol>
Threats and vulnerabilities identification	<ol style="list-style-type: none"><li>5. Identify appropriate threats using gategorization: elemental and directed;</li><li>6. Identify appropriate vulnerabilities using gategorization: technology, person, infrastructure and organization.</li></ol>
Probability and impact assessment	<ol style="list-style-type: none"><li>7. Develop risk scenarios, describe worse case scenarios considering your business, assets and identified threats;</li><li>8. Develop appropriate probability scale;</li><li>9. Develop appropriate impact scale.</li></ol>
Risk assessment and risk treatment	<ol style="list-style-type: none"><li>10. Develop risk matrix;</li><li>11. Give risk assessments;</li><li>12. Identify most critical risks;</li><li>13. Describe risk treatment options: avoidance, reduction, sharing, retention.</li></ol>
Controls development and implementation, information security assurance	<ol style="list-style-type: none"><li>1. Describe what controls should be taken and what order;</li><li>2. Describe the principal controls implementation plan;</li><li>3. What kind of advise you would give to the company to assure information security.</li></ol>