

## Tutorial Sheet 11: V & V planning and risk management

### Assignment 1: V & V

You are now the only responsible person in the project to detect the security and audit defects. The project is about development of an on-line order processing and payment system. All company product information would be available in on-line and customers will be able to see details about the product, select and order the product. The order process needs customer valid credentials through name, address and payment information. You review your V & V lectures of the software quality management course for this purpose. You know from the lecture, that Wojjicki and Strooper proposed a structured approach to find a good combination of V & V techniques based on their effectiveness and efficiency data. The approach contains four steps, i.e., preselection, maximise completeness, minimise effort, and post selection. Given below is a table with the necessary data based on the project context.

	Buffer Overflow	Non-Compliance	incomplete Spe.	Other Security Flaw
Requirement review		H[H]	H[L]	
Audit		H[L]		
Code review tool	L[H]		L[M]	
Unit tests	H[L]			

**Deliverable** Develop a V& V plan based on the project context by following the Wojjicki and Strooper approach. Is the given table adequate for the project purpose? if not then improve the table, otherwise justify your view.

### Assignment 2: Risk Management Risk management is always effective to control

the risk of the development and increase the likelihood of project success. It would be effective to initiate the risk management activities by identifying the goals of the project specific context and risk factors which obstruct the goals. Goal-driven approach for this management facilitates to assess and management risk in order to meet the project goals.

**Deliverable** Identify the goals and risk factors of the project context stated in the previous task. Select treatment actions to mitigate the risk and to attain the goals.