

Hogeschool van Amsterdam  
Bedrijfskundige Informatica

Information System Analyst

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ISA Competence	Keyword	VET Competence Level1	VET Competence Level2	VET Competence Level3	VET Competence Level4	Confirm
<b>1. Conduct needs analysis</b>						
Interpret data						
	model&data					
		is able to model data				
	design&database					
		is able to design a database				
Document existing procedures						
	document&procedure	----				
Determine software needs						
	users need					
		knows exactly what users need				
	knowledge&software	----				
	knowledge&information system	----				
Define business problem to be solved by the application (e.g., through interview process)						
	define&business problem	----				
	problem solving	----				
	knows&business process					
		knows about business process management				

	has knowledge of&business process	----				
	knows&organization	----				
	problem&organization	----				
	business problem					
		is able to come up with creative and innovative solutions to business problems				
	business environment	----				
	advise&organisation					
		is able to advise organisations				
	users need					
		knows exactly what users need				
Align information system (IS) design with the business process						
	design&information system					
		is able to design an information system				
			knows about business process management			
			is able to use UML			
			knows exactly what users need			
			is able to make organisations work better with ict			
			is able to design a database			
			is able to design an application			
			has knowledge of accounting and financial management			

			is able to model data			
			knows about markets where an organisation works in			
			is able to develop business processes			
			is able to come up with creative and innovative solutions to business problems			
			is able to make a functional design			
	has knowledge of&business process	----				
Interpret existing operating documents for the system						
	document&system	----				
Document possible alternative solutions						
	document&solution	----				
	solution					
			is able to come up with creative and innovative solutions to business problems			
Determine hardware needs						
	users need					
			knows exactly what users need			
	knowledge of hardware	----				
	build&computer	----				
	know&computer	----				
Define business information requirements						
	define&requirement	----				
	business information	----				

	business environment	----				
	requirements analysis	----				
Interpret existing operating procedures for the system						
	procedure&system	----				
Review organizational structure						
	knowledge of&business process	----				
Observe existing procedures						
	analyse&procedure	----				
<b>2. Design computer applications</b>						
Design system input/output processes						
	input&process	----				
	output&process	----				
	design&process	----				
Identify constraints (e.g., political, financial, time, hardware, and systems)						
	constraint	----				
Develop test procedures						
	test plan	----				
	test&procedure	----				
	develop&procedure	----				
Outline steps for program development cycle, (e.g., prototyping,storyboarding)						
	software&development	----				
	development&cycle	----				
Establish policies to govern the development of organizational information systems						

	policies&information system	----				
	develop&system	----				
Develop system design procedures						
	system design	----				
	design&procedure	----				
	develop&procedure	----				
Determine the roles of user and management in the computer system development process						
	role&user	----				
	role&management	----				
	develop&process					
		is able to develop business processes				
	system development	----				
Establish input and output (I/O) requirements						
	input&requirement	----				
	output&requirement	----				
	requirement	----				
Determine software to be used in design						
	determine&softver	----				
	choose&softver	----				
Establish standards to govern the development of organizational information systems						
	standard&information system	----				
	develop&system	----				
Develop quality standards						
	quality&management	----				
	quality&standard	----				
	develop&standard	----				

<b>3. Develop documentation</b>						
Prepare user documentation						
	user&documentation	----				
	prepare&documentation	----				
Revise system design procedures						
	system design	----				
	revise&procedure	----				
Document test procedures						
	test procedure	----				
	document&procedure	----				
Revise test procedures						
	test procedure	----				
	revise&procedure	----				
Prepare dataflow diagrams						
	dataflow&diagram	----				
	prepare&diagram	----				
Identify documentation needs						
	documentation&need	----				
	prepare&documentation	----				
Document quality standards						
	quality standard	----				
	document&standard	----				
Prepare program documentation						
	program&documentation	----				
	prepare&documentation	----				
Update design documentation						
	design&documentation	----				
	update&documentation	----				
Revise quality standards						
	quality standard	----				
	revise&standard	----				

Document system design procedures						
	system design	----				
	document&design	----				
Establish documentation-update method						
	documentation&update	----				
<b>4. Design a system project</b>						
Plan use of the results						
	use&result	----				
Identify the phases in a system project						
	project&phase	----				
	manage&project	----				
Define the scope of the systems project						
	scope&project	----				
	define&scope	----				
	manage&project	----				
Analyze information processing needs						
	information&need	----				
	process&information	----				
	analyze&need	----				
Select basic fact-gathering techniques to be used						
	fact&gather	----				
	select&technique	----				
Define the goals of the system						
	goal&system	----				
Maintain project scope						
	project&scope	----				
	maintain&scope	----				
	manage&project	----				
Analyze information computation needs						
	information&need	----				

	analyze&need	----				
Plan computer systems						
	plan&system	----				
	design&system					
		is able to design an information system				
			knows about business process management			
			is able to use UML			
			knows exactly what users need			
			is able to make organisations work better with ict			
			is able to design a database			
			is able to design an application			
			has knowledge of accounting and financial management			
			is able to model data			
			knows about markets where an organisation works in			
			is able to develop business processes			
			is able to come up with creative and innovative solutions to business problems			
			is able to make a functional design			
Conduct a preliminary investigation						
	preliminary&investigation	----				
	conduct&investigation	----				

<b>5. Perform a detailed system investigation and analysis</b>						
Identify evaluation criteria						
	evaluate&criteria	----				
Analyze performance indicators						
	performance indicator	----				
	analyze&indicator	----				
Correct errors by correcting codes						
	correct&error	----				
Present test results						
	test result	----				
Identify time constraints						
	time&constraint	----				
Locate code problems						
	code&problem	----				
	software&problem	----				
	test&code	----				
	program&language					
		is able to program in a programming language				
			is able to program in .NET			
Develop test plan						
	test plan	----				
	develop&plan	----				
Identify technology constraints						
	technology&constraint	----				
Record facts gathered through system investigation						
	fact&investigation	----				
	record&fact	----				
Assess the usefulness of pre-developed application packages						

	application&package	----				
	assess&package	----				
Evaluate technical alternatives						
	evaluate&alternative	----				
	technical&alternative	----				
Analyze test data						
	test data	----				
	analyze&test	----				
Perform appropriate diagnostic tests						
	diagnostic test	----				
	perform&test	----				
Review performance indicators						
	performance indicator	----				
	review&indicator	----				
Identify resource constraints						
	resource&constraint	----				
Determine investigation techniques to be used						
	investigation&technique	----				
Research technical alternatives						
	technical&alternative	----				
<b>6. Install / implement computer application system</b>						
Adapt pre-developed application packages to a user environment						
	use&package	----				
	adapt&package	----				
	applicaton&package	----				
Perform post-implementation evaluation of new system						

	evaluate&system	----				
	implementation&evaluation	----				
Present implementation plan to users and management						
	implementation plan	----				
	present&plan	----				
Perform changeover to new system						
	new system	----				
	change&system	----				
Link the computer systems within an organization to increase compatibility and so information can be shared						
	compatibility	----				
	link&system	----				
Design implementation plan						
	implementation plan	----				
	design&plan	----				
Perform implementation to new system						
	implementation	----				
	implement&system					
		is able to implement an information system				
			is able to implement a database			
			is able to develop a software			
				is able to program in a programming language		
					is able to program in .NET	

Identify ongoing support requirements						
	support&requirement	----				
<b>7. Run a system</b>						
Monitor information systems						
	monitor&system	----				
	apply&system					
		is able to apply an information system				
			is able to select an application for an organisation			
			is able to advise organisations			
Maintain information systems						
	maintain&system	----				
	apply&system					
		is able to apply an information system				
			is able to select an application for an organisation			
			is able to advise organisations			
<b>8. Deal with interpersonal issues</b>						
Serve as project leaders for particular systems projects						
	manage&project	----				
	project&leader	----				

Provide staff and users with assistance solving computer related problems, such as malfunctions and program problems						
	solve&problem	----				
	support&user	----				
Coordinating the installation of information systems						
	install&system	----				
	is able to coordinate	----				
Train staff and users to work with information systems						
	train&user	----				
Identify development team						
	develop&team	----				
	development team	----				



## ONTOLOGY BASED COMPETENCY MATCHING

Bridging the gap between vocational education and the workplace

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<b>Surplus VET Competences</b>
has communicative skills
has good social skills
is able to communicate to the programmers what they need to know
is able to communicate and form a bridge between technicians and programmers in the organisation and the customers
is able to work in a team
is able to use English for communication