

Watermark Learning Requirements Skills Matrix

By Skill Area

L = Light M = Medium H = Heavy

| Skill | Class | | | | | | |
|--|---------------------------------|--------------------------------|---------------------------|---------------|-------------------|-----------------------------|-------------------------------------|
| | Gathering Business Requirements | Managing Business Requirements | Business Process Modeling | Data Modeling | Use Case Modeling | Business Analysis using UML | Object Oriented Analysis and Design |
| Requirements Basics | | | | | | | |
| Understand what requirements are and why they are critical to success | H | M | M | | | | |
| Use a systematic process for gathering requirements | H | H | M | M | M | M | M |
| Establish priorities of requirements | H | M | | | | | |
| Act as a consultant to recommend solutions that best meet customer needs and expectations | H | | M | | | | |
| Use numerous methods of eliciting the right information from your clients in the right situations | M | H | H | | | | |
| List the components of a "good" requirement and provide examples | | H | | | | | |
| Document business requirements clearly in a Business Requirements Document | M | H | | | | | |
| Use meetings and other methods to gain consensus on requirements | H | H | M | | | | |
| Employ effective facilitation techniques | L | L | M | | | | |
| Discover /document hidden requirements using appropriate techniques | L | H | H | | | | |
| Learn techniques to handle additional requirements that surface throughout the project | | H | | | | | |
| Stakeholders | | | | | | | |
| Identify project stakeholders and discuss the keys to obtaining stakeholder trust, ownership and commitment | M | H | M | | | | |
| Work effectively with key stakeholders involved in requirements gathering sessions, and gain trust of those whose processes are changing | M | H | H | | | | |
| Requirements "Techniques" | | | | | | | |
| Define the key deliverables of a requirements framework. Discuss the interdependencies of data, processes and user interfaces | L | H | L | | | | |
| Develop a traceability matrix to ensure requirements are managed throughout the entire project | | H | | | | | |
| Practice mapping business processes using a variety of charting techniques | | M | H | | | | |
| Develop user interfaces based on data and process requirements | | H | | | | | |
| Learn an easy-to-use prototyping technique to elicit business requirements | | H | | | | | |
| Analyze processes using common process steps and document accordingly | | M | H | | | | |
| Measure and improve business processes by developing "as-is" and "to-be" process maps and document accordingly | | L | H | | | | |
| Develop use cases to capture system interactions using Unified Modeling Language (UML) | | M | M | | H | M | M |
| Define problem domains by developing a context diagram | | | | | H | M | M |
| Diagram processes using activity diagrams | | | | | H | M | M |
| Apply activity diagrams to capture and document high-level business requirements | | | M | | H | H | H |
| Document data requirements used to support business processes | | M | | H | | M | M |
| Document data models with Entity/Relationship diagrams and walk through portions of a data model with people to validate it | | L | | H | | | |
| Model the required detailed behavior of the system using static and dynamic views of objects and classes | | | | | | H | H |
| Understand the phases and workflows of the unified process and how they can be applied using UML | | | | | M | H | H |
| Ensure that the inherent business rules in the problem domain are represented in the system model | | | | | M | H | H |
| Model the structural relationships between classes with the correct use of inheritance, aggregation and association | | | | | M | H | H |
| Progress from analysis to design, taking into account architectural decisions and design constraints | | | | | | | H |

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By Job

R = Recommended

O = Optional

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| | Gathering Business Requirements | Managing Business Requirements | Business Process Modeling | Data Modeling | Use Case Modeling | Business Analysis using UML | Object Oriented Analysis and Design |
| Business Analyst | R | R | R | R | R | O | |
| Business Data Analyst | R | R | O | R | | O | |
| Process Analyst/Consultant | R | R | R | O | R | | |
| Application Designer | | | O | O | O | R | R |
| Application Developer | | | O | O | O | O | R |
| Project Manager | O | R | R | | | | |

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