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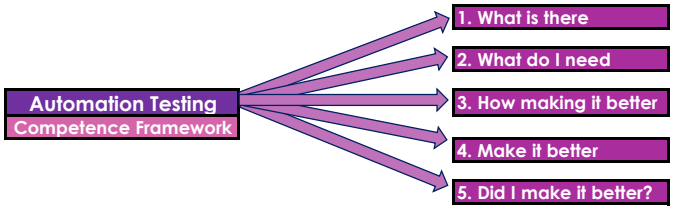
Software Testing Academy

Erasmus+



What is already there?	Observe	Identify	Design	Prototype	Test
Topics	When to Automate Who's involved in Automation Creating Automation Scenarios	Value of Test Automation Test Automation Maintanence When to Automate Measuring ROI	Test Automation Design Approaches Creating Automation Scenarios	Measuring ROI Value of Test Automation Value Reporting for Automation Test Automation Design Approaches Tool Selection Criteria	Test Automation Design Approaches Test Automation Applications Value Reporting for automation
Goal	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What is the Test Process? What is the value? What is covered?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Which tests are repetitive? What yields results? What doesn't yield results?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: How was the test process designed? How is each change tested? Who is designing the testing processes?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: How is test effectiveness measured? How is test accuracy measured? How is test accessibility measured?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Illustrate the test design process Illustrate the testing execution process Illustrate the testing communication process
Outcome & Methods	I am able to understand and explain my test process and examine other test processes I am able to point out the risk and high value areas of my testing and that of others I am able to show what parts of my systems are covered with existing tests (and which are not)	I am able to identify which test have repeated steps and how to standardize them I am able to measure the results of tests in my process and check the return on effort I am able to identify and stop doing tests which do not yield useful results	I am able to understand and explain how my test processes were designed and applied I am able to trace the logic between the change request and the tests designed to invesitgate their impact I understand the roles involved in designing my test process and who my stakeholders are, and how to report results to them	I understand the effectiveness of my test process and how to measure it I am able to review my testing and check for accuracy in results. I can improve where needed I understand the tools, environments and data needed for my testing process, and how to access them and make them accessible for others	I am able to illustrate and explain the process behind designing my tests I am able to illustrate and explain my process of executing tests I am able to illustrate and explain to whom I communicate results, issues, bugs, and fix requests as a result of my testing, and follow up on those items and create next steps

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What do I need to make this better?	Observe	Identify	Design	Prototype	Test
Topics	Test Automation Design Approaches Measuring ROI When to Automate	Test Automation Design Approaches Measuring ROI When to Automate	Value Reporting for Automation Measuring ROI Who's Involved In Automation	Who's involved in Automation Creating Pseudocode Test Automation Design Approaches	Measuring ROI Tool selection criteria Test Automation Design Approaches
Goal	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Measuring test effectiveness Measuring test accuracy Measuring test accessibility	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What is working well for testing process? What is not working well for testing process? Where is the value in the test process?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Effort ROI Feedback Link action to value	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Select / Identify / Categorize parts of testing process List of improvements Identification of stakeholders	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Create a test value list Create a needed tools list Create an impact map of testing process
Outcome & Methods	I am able to explain the key differences between different automated design approches I am able to define affectiveness, accuary and accessibility in my own words I can compare a given scenario which will be tested manuale vs. Automaticcally	I can analyse a given Test scenario regarding automated testing I can name at least 3 reasons why there is value for a automated testing scenario I can recognize, which test automation approaches have the most value (by a decision table) I can define a goal of test automation	I can decide and explain, with resoanable facts, to others, when automation is usefull and when not I am able to write an management summary to inform managers adequatly I can visualize which competences needs to be involved.	I can differentiate between the needed groups and I know with which information they need to be approched I can name all pot. Stakeholders, which have influence or are influenced,	I can visualize a clear scenario with all necessary parts (see above) I am able to compare different options by a detalied anlysis of the topics above. I am able to answer critical questions from managemen to convince them about the most suitable approach.

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How would I make it better?	Observe	Identify	Design	Prototype	Test
Topics	Tool Selection Criteria Test Automation Tools / Suites Test Automation Applications	What is Test Automation Types of Test Automation Test Automation Applications Measuring ROI	Test Automation Application Test Automation Design Approaches When to Automate	Test Automation Application Test Automation Design Approaches When to Automate Measuring ROI	Measuring ROI Test Automation Application Value of Test Automation
Goal	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What options / tools do I have? Where have we applied TA before and to what effect? Are other tools better?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What types of TA are there? Where in the process can we apply TA? What do we mean by "better?"	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Brainstorm criteria for applying to system Design value / stakeholder map Create exception strategies	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Create application criteria Create value measuring Model Exceptions	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Model value gain with automation Model effort needed to apply desired automation ROI comparison manual vs prospective automation
Outcome & Methods	I am able to analyze older TA approches buy the critical ciriteria I know how to find, check and value optional tools or add ons for TA approaches	I can divide a potential test scenario into usefull sections regarding TA I know different measuers of explaining "better" regarding the relevant stakeholders I can differniate between different types of TA	I am able to compare benefits of other tools I can name all relevant stakeholders and know about their value and how to approch them I can visualize a rough strategie	I am able to break the strategy into relevant parts and write down reasons for a usefull prototype	I am able to write a full offer with al relevant facts for a potential customer

Let's make it better!	Observe	Identify	Design	Prototype	Test
Topics	Test Automation Application Who's involved in Automation Creating Automation Scenarios	Who is involved in Automation When to Automate Test Automation Application	Creating Automation Scenarios Test Automation Application Measuring ROI	Creating Pseudocode Triggers and Schedules (A) Test Automation Scripts	Measuring ROI Test Automation Application Value Reporting for Automation
Goal	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What is the implementation plan (how to make one?) What is the communication plan (how to make one) What skills are needed to implement?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Who will do the work? Timelines Where will we apply TA?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Organize implementation tasks Create automation scenarios Where will we build in measurements of quality?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Writing Pseudocode / Automation Code Creating schedules and triggers Running Automation	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: How to test Automation Linking TA to the test process Reporting Results
Outcome & Methods	I can name the most critical success factors to the project plan	I can write a project plan with all relevant criteria	I know which basic elements a critical in the roll of a project lead	I am able to write the first tests and manage them	I am able to finalize at least to tests regarding the most critical Testareas I am able to interpret the results I am able to formulate a summary of the results

Did I make it better?	Observe	Identify	Design	Prototype	Test
Topics	Measuring ROI Value Reporting on Automation When to Automate	Measuring ROI Automation Refinement (A) Test Automation Scenario Testing (A)	Test Automation Design Approaches Automation Principles of Design (E) Future Proofing (A) Exploratory Automation Design (E)	Automation Refinement process (A) Code Linking (Auto Updates) (A) Maintenance protocols (A)	Value Reporting for Automation Measuring ROI Teaching Automation
Goal	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: Calculating value measurements Calculating time saved "Feeling" impact	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What is my Return On Investment from Automation? How do I handle Impediments? What are some areas I missed?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What kind of principles guide my design of automation? How do I make sure my automation will last in the future and be easily maintained? What kind of things can inspire new Automation?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: What kind of tools and techniques can I use to maintain my automation? How can I use my development process to trigger automation changes? What things should I look at to ensure my automation is maintained?	As a prospective tester I am able to answer the following questions, explore the concepts and explain it to others: How do I report resource use for automation? How do I report value created by Automation? How do I teach others how to automate better or at all?
Outcome & Methods	I know all possible valuable areas that can be used to show the value of a TA project	I know who to measure and calcuate critical measurements What can I learn from a lessons learned?	What insights can I get from an extensive analysis for future projects? I can use the feedback from stakeholders to improve future TA projects	I know which steps need to implemented to ensure a high quality of a TA Project over time	I can prepare a training for TA juniors I can diffentiate between relevant roles regarding TA and who to support then on demand