ISTQB Artificial Intelligence AI Tester Instruction Manual

Contents

APPLICATION AND WEB DEVELOPMENT

ISTQB Artificial Intelligence (AI) Tester

LENGTH	PRICE (Incl. GST)
4 days	**$2750**

ISTQB AT LUMIFY WORK

Since 1997, Planit has established its reputation as the world leading provider of software testing training, sharing their extensive knowledge and experience through a comprehensive range of international best-practice training courses like ISTQB.

Lumify Work's software testing training courses are delivered in partnership with Planit.

WHY STUDY THIS COURSE

The ISTQB Artificial Intelligence (AI) Tester certification extends understanding of quality engineering to AI and/or

deep (machine) learning, most specifically testing AI-based systems and using AI in testing. The course syllabus concentrates on understanding the current state and expected trends of AI to design and execute test cases for AI-based systems.

By the end of the course, you will be able to understand how AI can be used to support software testing. You will also be able to contribute to the test strategy for an AI-based system.

Included with this course:

- Comprehensive course manual
- Revision questions for each module
- Practice exam

Please note: The exam is not included in the course fee but can be purchased separately. Please contact us for a quote.

WHAT YOU'LL LEARN

Learning outcomes:

> Definitions of AI and AI effect, narrow, general and super AI, AI-based and conventional systems. AI technologies, AI development frameworks, hardware for AI-based systems, AI-as-a-Service, pretrained models, standards and regulations.
> AI system flexibility, adaptability, autonomy, evolution, bias, ethics, side effects, transparency, and safety.
> Forms of ML, workflow, forms of ML selection and f actors involved, overfitting and underfitting.
> data preparation, validation, quality issues and effects, labelling for learning.
> AI performance metrics - limitations, selection, and benchmarking.
> Neural networks and coverage measures.
> AI-based systems specifications, test levels, test data, automation bias, documentation, concept drifts and test approaches.
> Challenges in testing self learning and autonomous systems, including transparency, interpretability, and explainability. Test objective and acceptance criteria.
> Test methods, techniques and selection f or adversarial attacks, pairwise, back-to-back, A/B, metamorphic and experience-based testing.
> Test environments f or AI testing.
> Using AI f or defect analysis and prediction, test case generation and user interfaces.

“My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.

AMANDA NICOL
IT SUPPORT SERVICES MANAGER – HEALTH WORLD LIMITED

Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and

resources.

For more information, please contact us on 1 800 853 276.

COURSE SUBJECTS

- Introduction to AI.
- Quality characteristics f or AI-based systems.
- Machine Learning (ML) overview.
- ML data.
- ML functional performance metrics.
- ML, neural networks, and testing.
- Testing AI-based systems overview.
- Testing AI-specific quality characteristics.
- Methods and techniques for the testing of AI-based systems.
- Test environments for AI-based systems.
- Using AI to analyse reported defects and test case generation.
- Using AI for the optimisation of regression test suites.
- Using AI for defect prediction.
- Using AI to test through the graphical user interface (GUI).

WHO IS THE COURSE FOR?

This course is designed for:

- Anyone involved in testing AI-based systems and/or AI f or testing.
- Testers, test analysts, data analysts, test engineers, test consultants, test managers, user acceptance testers, and software developers.
- Anyone who wants a basic understanding of testing AI-based systems and/or AI f or testing.
- Project managers, quality managers, software development managers, business analysts, operations team members, IT directors, and management consultants working with an AI-based system.

PREREQ UISITES

The candidate must hold the **ISTQB Foundation** certificate to undertake the ISTQB AI Tester course. A minimum of 12 months' testing experience is also recommended.

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

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Documents / Resources

	ISTQB ISTQB Artificial Intelligence AI Tester [pdf] Instruction Manual ISTQB Artificial Intelligence AI Tester, ISTQB, Artificial Intelligence AI Tester, Intelligence AI Tester, AI Tester

References

- Lumify Work | Lumify Work AU
- Lumify Work | Lumify Work AU
- ISTQB Artificial Intelligence (AI) Tester | Lumify Work AU
- ISTQB Foundation | Lumify Work AU
- User Manual