

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 50001WAT — Energy Management on Vessels

*ISO Certification Programme*



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### LAPT — London Academy of Professional Training

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**Reference** TR-WAT-50001WAT • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

|               |                                                |
|---------------|------------------------------------------------|
| REFERENCE     | TR-WAT-50001WAT                                |
| AWARD         | Certificate                                    |
| ASSESSMENT    | 430 marks — 258 to pass (60%)                  |
| PREREQUISITES | None                                           |
| VALIDITY      | Lifetime                                       |
| AWARDING BODY | LAPT — London Academy of Professional Training |

CURRICULUM

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| <div>1</div> | <div>Data Analysis for Energy Efficiency</div> <div>0 chapters85 marks</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <div>2</div> | <div>Development of Energy Management Systems</div> <div>0 chapters45 marks</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <div>3</div> | <div>Energy Management Fundamentals</div> <div>5 chapters · 24 classes85 marks</div> <div><div><div>• 1 Introduction to Energy Management Principles on Vessels — 6 classes</div><div><div>› 1.1 Define key energy management concepts in the context of vessels</div><div>› 1.2 Explore the importance of energy management for vessel efficiency</div><div>› 1.3 Identify relevant legislation and standards impacting energy management</div><div>› 1.4 Analyze current energy consumption patterns on vessels</div><div>› 1.5 Develop strategies for implementing energy efficiency measures</div><div>› 1.6 Create an action plan for continuous energy monitoring and improvement</div></div></div><div><div>• 2 Regulatory Framework and ISO 50001 Standards — 6 classes</div><div><div>› 2.1 Understand the Importance of Energy Management Regulations</div><div>› 2.2 Explore the Key Elements of ISO 50001 Standards</div><div>› 2.3 Identify Regulatory Compliance Requirements for Vessel Energy Management</div><div>› 2.4 Analyze the Benefits of Implementing ISO 50001 on Vessels</div><div>› 2.5 Develop an Action Plan for ISO 50001 Certification</div><div>› 2.6 Evaluate Case Studies of Successful ISO 50001 Implementation</div></div></div><div><div>• 3 Energy Auditing and Monitoring Techniques — 6 classes</div><div><div>› 3.1 Identify Key Components of Energy Auditing</div><div>› 3.2 Evaluate Energy Consumption Patterns on Vessels</div><div>› 3.3 Apply Energy Monitoring Techniques Effectively</div><div>› 3.4 Analyze Data from Energy Audits and Monitoring Systems</div><div>› 3.5 Develop Action Plans Based on Energy Audit Findings</div><div>› 3.6 Implement Continuous Improvement Strategies for Energy Management</div></div></div></div> <div><div><div>• 4 Energy Efficiency Measures and Technologies for Vessels — 6 classes</div><div><div>› 4.1 Identify Key Energy Efficiency Technologies for Vessels</div><div>› 4.2 Evaluate Energy Consumption Patterns in Maritime Operations</div><div>› 4.3 Implement Best Practices for Fuel Management on Vessels</div><div>› 4.4 Analyze the Impact of Hull Design on Energy Efficiency</div><div>› 4.5 Explore Renewable Energy Options for Vessel Operations</div><div>› 4.6 Develop an Action Plan for Enhancing Energy Management Practices</div></div></div><div><div>• 5 Developing an Energy Management Action Plan</div></div></div> |  |
| <div>4</div> | <div>ISO 50001 Standards Application</div> <div>0 chapters85 marks</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

5

**Leadership and Team Engagement in Energy Management**

0 chapters

**65 marks**

6

**Sustainability and Compliance Metrics**

0 chapters

**65 marks**