

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 30165 — Real-Time IoT Systems

*ISO Certification Programme*



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### LAPT — London Academy of Professional Training

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**Reference** IIT-IOT-30165 • ISO IT & Related Technologies

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

|               |                                                |
|---------------|------------------------------------------------|
| REFERENCE     | IIT-IOT-30165                                  |
| 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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| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Designing IoT Solutions              | 0 chapters                                                                                                                      | 45 marks  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Emerging Technologies in IoT         | 0 chapters                                                                                                                      | 45 marks  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IoT System Architecture              | 5 chapters · 18 classes                                                                                                         | 125 marks |
| <div><div>• 1 Fundamentals of IoT System Architecture — 6 classes</div><div><div>› 1.1 Define Key Concepts of IoT System Architecture</div><div>› 1.2 Identify Components of IoT Architecture Models</div><div>› 1.3 Explain Communication Protocols in IoT</div><div>› 1.4 Analyze Data Flow in IoT Systems</div><div>› 1.5 Explore Scalability and Security in IoT Architecture</div><div>› 1.6 Design a Basic IoT Architecture for a Real-World Application</div></div><div><div>• 2 Core Building Blocks of IoT Systems — 6 classes</div><div><div>› 2.1 Define and Describe Key Components of IoT Architecture</div><div>› 2.2 Analyze the Role of Sensors in Data Collection</div><div>› 2.3 Evaluate Communication Protocols Used in IoT Systems</div><div>› 2.4 Explore Cloud and Edge Computing Integration in IoT</div><div>› 2.5 Assess Security Considerations for IoT Architectures</div><div>› 2.6 Develop a Simple IoT Solution Using Core Building Blocks</div></div><div><div>• 3 Designing Scalable IoT Architectures — 6 classes</div><div><div>› 3.1 Analyze Key Components of Scalable IoT Architectures</div><div>› 3.2 Evaluate Different Communication Protocols for IoT Scalability</div><div>› 3.3 Explore Design Patterns for Enhancing IoT Scalability</div><div>› 3.4 Assess Cloud Solutions for Scalable IoT Deployments</div><div>› 3.5 Implement Security Measures in Scalable IoT Systems</div><div>› 3.6 Develop a Scalable IoT Architecture Prototype</div></div></div></div></div> |                                      | <div><div>• 4 Integration of Cloud and Edge Computing in IoT</div><div>• 5 Security and Privacy in IoT Architecture</div></div> |           |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ISO Standards in IoT                 | 0 chapters                                                                                                                      | 85 marks  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Leadership in IoT Project Management | 0 chapters                                                                                                                      | 45 marks  |

