



Python Programming for Engineers: Advanced Level

IT, Cybersecurity & AI

QGT-ITD-135 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Python Programming for Engineers: Advanced Level is an advanced programme for experienced practitioners in Python Programming for Engineers. It covers the principles, the requirements of ISO 27001, NIST CSF, ITIL 4 and COBIT 2019, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Python Programming for Engineers
- Apply the relevant requirements of ISO 27001, NIST CSF, ITIL 4 and COBIT 2019
- Apply advanced analysis methods to real operating data
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for IT professionals, analysts, engineers and digital transformation teams with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in ISO 27001, NIST CSF, ITIL 4 and COBIT 2019

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
22 Feb – 5 Mar 2027	Stockholm	Classroom	10 days	\$9,900
1–5 Mar 2027	Tunis	Classroom	5 days	\$5,500
25 Apr – 6 May 2027	Erbil	Classroom	10 days	\$9,900
16–20 Aug 2027	Sharjah	Classroom	5 days	\$5,500
23 Aug – 3 Sep 2027	Online (live)	Online (live)	10 days	\$5,500
27 Feb – 9 Mar 2028	Doha	Classroom	10 days	\$9,900
26–30 Mar 2028	Kuwait City	Classroom	5 days	\$5,500
9–20 Jul 2028	Dammam	Classroom	10 days	\$9,900
14–18 Aug 2028	Rome	Classroom	5 days	\$5,500
28 Aug – 8 Sep 2028	Online (live)	Online (live)	10 days	\$5,500
26 Mar – 6 Apr 2029	Cape Town	Classroom	10 days	\$9,900
2–6 Apr 2029	Bangkok	Classroom	5 days	\$5,500
16–27 Apr 2029	Istanbul	Classroom	10 days	\$9,900
29 Apr – 3 May 2029	Manama	Classroom	5 days	\$5,500
28 May – 8 Jun 2029	Online (live)	Online (live)	10 days	\$5,500
18 Feb – 1 Mar 2030	Madrid	Classroom	10 days	\$9,900
9–13 Jun 2030	Muscat	Classroom	5 days	\$5,500
21 Jul – 1 Aug 2030	Al Khobar	Classroom	10 days	\$9,900
5–9 Aug 2030	Nairobi	Classroom	5 days	\$5,500
23 Sep – 4 Oct 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/python-programming-for-engineers-advanced-level/>

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