

LECTURE 08 • PSM-28 • 2 H

Physical and Waterside Security

Purpose. Assess landside and waterside exposure and develop layered physical-security measures using operational requirements, CPTED principles and proportionate response.

Learning outcomes supported. 3, 4, 6 and 8

Suggested time plan: Read and annotate 25 min | Research and collect evidence 35 min | Create the required output 50 min | Review 10 min | Total 2 h

Research questions

1. How do physical security deter, detect, delay, assess and respond work as one protective system?
2. Which waterside conditions change vulnerability during berthing, loading or refuelling?
3. How can physical measures support safety, legitimate movement, maintenance and emergency access?

Independent-learning activity

4. Use a fictional facility plan; mark boundaries, approach routes, observation points, critical assets and response access.
5. Identify six vulnerabilities across perimeter, lighting, CCTV, barriers, waterside and maintenance.
6. Propose layered treatments and state dependencies, limitations, inspection frequency and response ownership.
7. Test the design against one small-craft concern and one vehicle or pedestrian access scenario.

Recommended further reading

[IMO: SOLAS Chapter XI-2 and the ISPS Code](#)

[UK Government: Freeports security and illicit activity guidance](#)

[NPSA: Hostile Vehicle Mitigation guidance](#)

[UK Guide to Good Practice on Port and Marine Facilities \(2025\)](#)

Also use the corresponding London Gateway College lecture material and any tutor-approved local or sector source.