SYNAPSE

CLAIRVYNT
APPLIED INNOVATION

Synapse case study

Mapping safety-critical responsibilities to roles

A North Sea operator needed to show which roles carried its safety-critical responsibilities, and to check each one against the sentence in its major accident hazard documents that assigns it.

77	4,898	38	<0.1%
major accident hazard documents processed	role and responsibility assignments	safety-critical leadership roles covered	quote-verification error rate* Quote matching only

*Each quote Synapse recorded was checked against the source text.

The situation

The operator's management system had grown over years of change. Responsibilities were written in different ways across its documents, and some documents still named roles that had since been renamed or removed.

The team needed a view of who held each safety-critical responsibility that they could check line by line.

What Synapse did

Synapse read the 77 documents the operator supplied and extracted the responsibilities written into them. It mapped each one to a role, starting with 38 safety-critical senior leadership roles, and kept the verbatim sentence and document reference with every assignment.

Each documented activity was rated for safety criticality, and the ratings were rolled up for each role. The evidence also showed removed and renamed roles that still carried responsibilities.

What the team received

- A role reference map showing where each leadership role appears in the management system.
- A responsibilities register with the source text behind every entry.
- A safety-criticality rating for each documented activity, rolled up for each role.

Safety criticality, traced to the sentence

Every responsibility Synapse finds carries a safety-criticality score, SC, from 0 to 5, with 5 the highest. The scores roll up to each role. Filtering a role on its score gives a reviewer a short list to check first, and each entry opens at the sentence it came from.

87 of 210

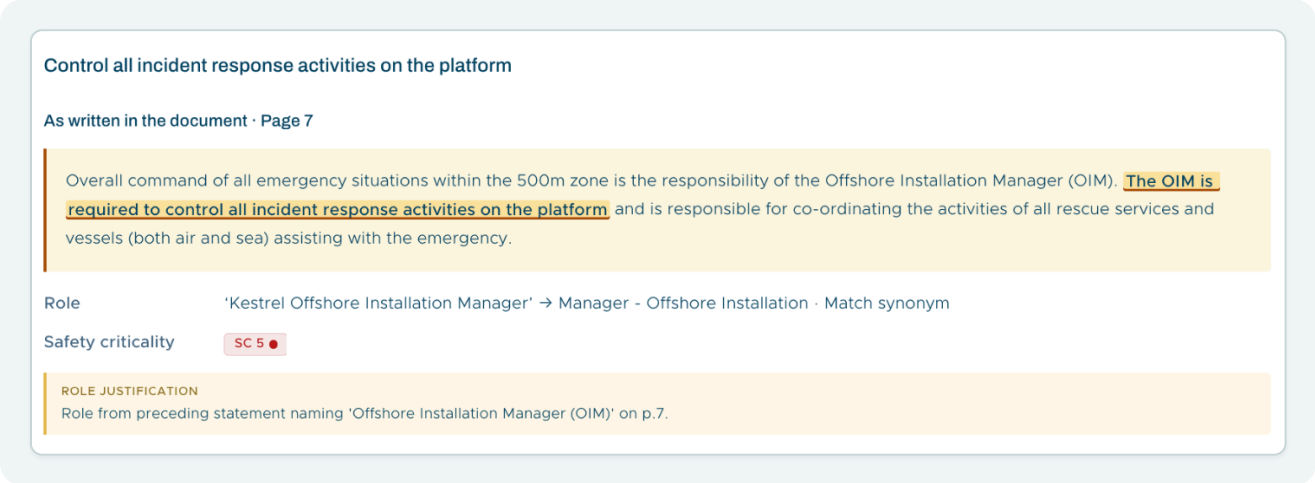
responsibilities Synapse found for the Offshore Installation Manager score SC 3 or above

0	1	2	3	4	5

SC 0, lowest

SC 3 to 5, the short list to check first

SC 5, highest



One responsibility at SC 5. The document names the role as Kestrel Offshore Installation Manager, and Synapse maps it to the current role and records why. Screens from the operator's workspace in Synapse today, with document, asset and people names replaced.

See how Synapse works

Watch the walkthrough film
clairvynt.com/products/synapse

Ask for a walkthrough on your documents
clairvynt.com/contact-us