

ENGINEERING & CONSTRUCTION RISK INSTITUTE

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Purpose: To review the merits of modular construction within the EPCI offshore industry and the associated considerations and risks involved.

Introduction: Historically modules were used in the offshore industry for large topsides because the heavy lift installation vessels available to the industry did not have the capacity to lift large, single piece integrated decks. With the construction of ever larger capacity heavy lift vessels this is no longer the case. Today heavy lift vessels have larger capacity which increased the weight and dimensions limits related to offshore installation feasibility. In parallel other craneless methodology has been developed as Self-Installing platforms or Float-Over.

However, there are still instances where modularisation of an offshore topsides facility is the most effective methodology or, in some cases, the only execution methodology that can be adopted.

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