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DYNAMIC POSITIONING CONFERENCE
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RISK SESSION

**DP Proficiency Development – A Comprehensive
Approach to Competency Assessment and Assurance**

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DP Proficiency Development Program

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Topics

- 1. Supply & Demand – The shifting industry paradigm and the evolution of DPO assessments and competency assurance**
- 2. “If only the DPO was more competent...” – DPO competence vs. broader industry competence**
- 3. The DP Proficiency Development Approach – Comprehensive understanding of DP operations**
- 4. DP Proficiency Development Program – Structure, Audience, and Application**
- 5. Conclusions**

Supply & Demand

Shifting industry paradigm and the need for competency assessment and assurance programs

- Crisis of numbers
- DPO Certification is experiencing an explosive growth; the demand for competent DPOs is projected to quickly outgrow the supply and, in fact, already has
- Increasing standard of manning and personnel qualifications
- There is a perceived and growing gap in the training and competency of DP Operators
- Increase in the number of avoidable DP incidents due to maloperation
- Oil Majors, Vessel Owner/Operators, and other concerned parties are demanding the development and implementation of additional DP training and assessment programs
- Growing concern over the means of assessing a DPOs true level of experience

**“If only the DPO was more
competent...”**

The newest vessel complete with the most technologically up-to-date equipment can only perform to the standard of its operational personnel.

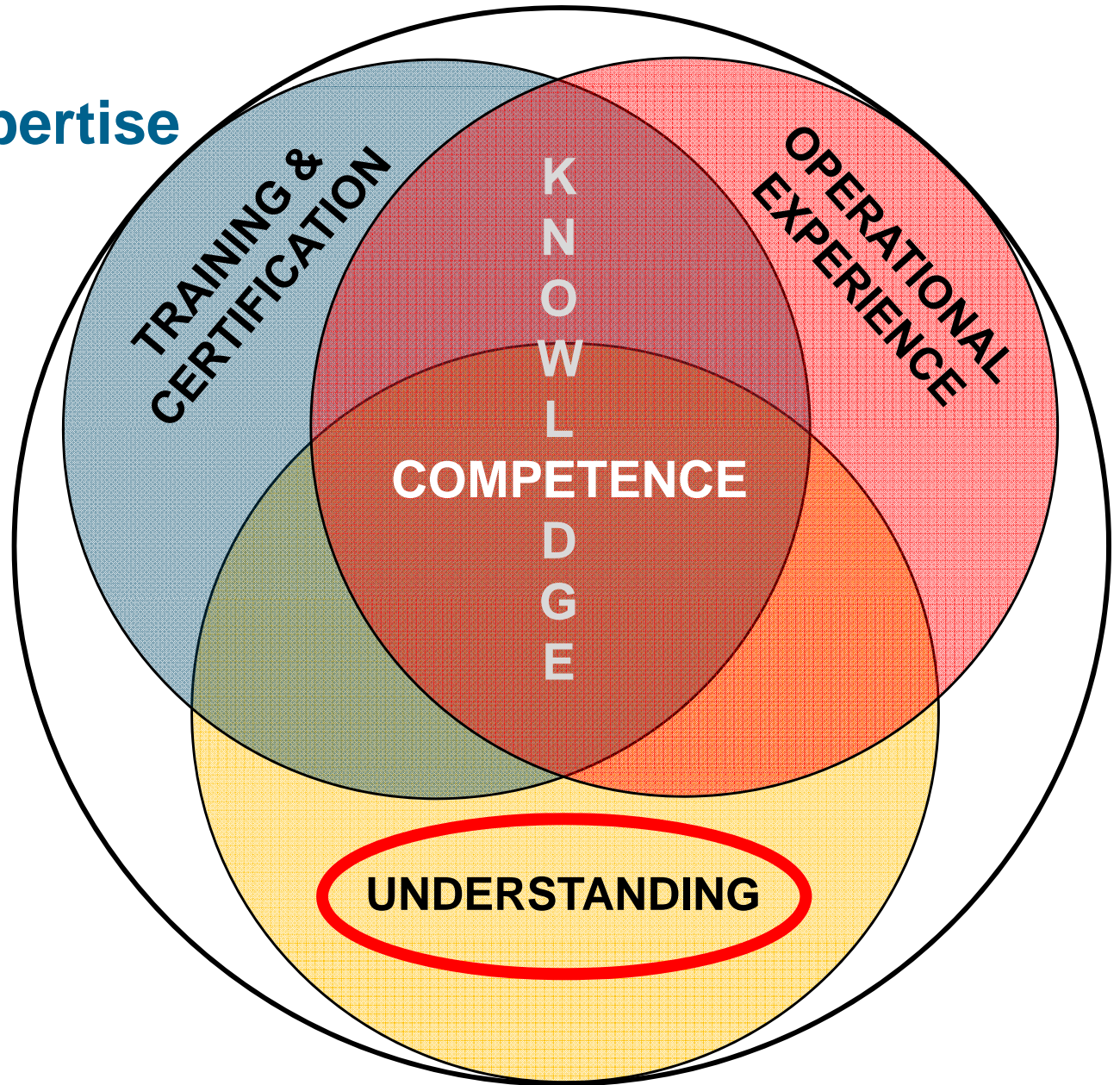
Likewise, the industry's cutting edge DP sector can only function to the level of knowledge and expertise demonstrated by those responsible for its policies, procedures, and regulations.

The DP Proficiency Development Approach

PRIMARY OBJECTIVES:

- **Promote and develop understanding – the Why, behind What, When, and How**
- **Demonstrate company and industry dedication to our single most important resource – people**
- **Educate all concerned parties to include Class & Regulatory bodies, third party consultants, and others**
- **Provide evidence to all concerned parties of proactive and ongoing DP competency assurance and assessment**

DP Field of Expertise



The DP Proficiency Development Program – Structure, Audience, and Application

- **What the Program IS**
 - **Created to demonstrate and further develop those tools that are already at the disposal of operating personnel, support staff, management, assurance personnel, and beyond**
 - **A sustainable Continuous Improvement Program to assist companies and the industry in developing our most important and valuable resources – PERSONNEL**
 - **The Program is NOT a punitive training regimen**
 - **It is NOT designed to dictate to how a vessel or organization should be operated, how operations should be managed, or the application and enforcement of policies**

Program Audience

- **Vessel Dynamic Positioning Operators & Deck Staff**
 - **Mates/Officers directly involved in day to day DP operations**
 - **Junior Officers, ABs, and Deck Cadets intending to pursue DPO certification**
- **Vessel Engineering Staff**
 - **Engineering Officers responsible for the safe and effective operation of the machinery plant and associated auxiliary equipment**
 - **Electricians and ETOs responsible for maintenance of power distribution equipment, DP system equipment, and auxiliaries**
 - **Engine Cadets intending to pursue employment in the offshore/DP industry**

DP Proficiency Development Program Modular Core Curricula (example)

- DP Rules & Requirements
- Guidelines & Recommended Practice
- Training & Certification Requirements
- Principles of DP and DP Operations
- Overall Redundancy Philosophy
- Elements of DP and DP Control Systems
- Position Reference System
- Environmental Sensors
- Power Generation and Distribution
- Propulsion
- Auxiliary/Ancillary Equipment & Systems
- Power Management
- Practical Operations of DP Systems
- DP Operations
- DP Incidents
- DP Drills
- DP Risk Management
- DP Maintenance and Critical Spares
- DP Documentation and Checklists
- Communications
- Emergency Procedures

DP Proficiency Development Program Modular Core Curricula (example)

Supplemental:

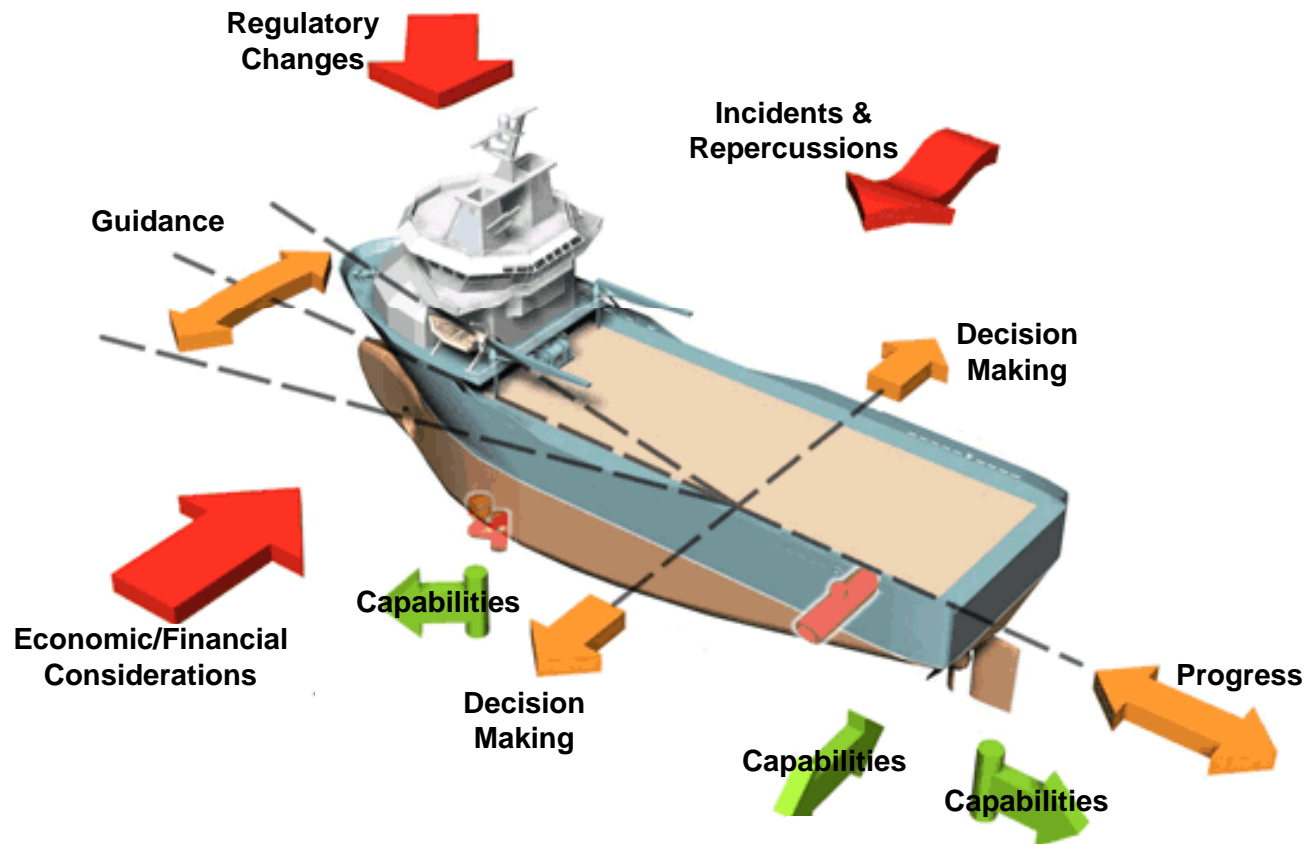
- Specific Operations – Diving, ROV Support, etc.
- Specialized Operations – Military/Government
- Critical Activity Mode of Operation (CAMO)
- Activity Specific Operating Guidelines (ASOG)
- Task Appropriate Mode (TAM)
- Simulator Training in Cooperation with Training Establishments

Additional:

- Operational Assessments
- Practical Exercises
- Development of Periodic Emergency Scenario Drills Using Annual DP Trials

DP Proficiency Development Program Modular Core Curricula (example)

- DP operations management and support capabilities



Original illustration: Kongsberg

Program Audience (cont.)

- **Office Personnel**
- **Diving, Installation, Production Personnel, etc.**
- **Assurance Personnel**
- **Vessel Owner/Operators, Clients, & Charterers**
 - DP/Marine assurance personnel responsible for the vetting of vessels and vessel operating staff
 - Familiarization Program Applicable to shoreside management and support staff
 - Verifies competency of vessel operational personnel prior to charter or as part of company Continuous Improvement Program
 - Offshore personnel directly affected by DP Operations and involved in activities reliant on accurate station keeping
 - Assesses adequacy of company/vessel policies and procedures and competency of vessel operational and management personnel

DP Proficiency Development Program Modular Core Curricula (example)

Primary Modules:

- DP Rules, Guidelines & Recommended Practice
- DP Training & Certification Requirements
- Principles of DP & DP Operations
- DP Operations Management
- DP Incident Investigation & Reporting
- DP Drills and Training
- DP Maintenance and Critical Spares
- DP Documentation and Checklists

Supplemental:

- Specific Operations
- Specialized Operations
- Incident Case Studies
- Critical Activity Mode of Operation (CAMO)
- Activity Specific Operating Guidelines (ASOG)
- Etc.

Customized Programs (cont.)

- **Training Organizations/Facilities**
 - **Possible Alternative Certification Program**
 - **Training program covering engineering personnel, support staff, management, etc.**
 - **Alternative certification program for personnel operating vessels of less than 200 gross tons**
 - **DP Competency Assessment**
 - **Verifies competency of vessel operational personnel prior to issuance of Certification**
 - **DP Proficiency Development Program**
 - **Comprehensive program covering Proficiency Development, Practical Exercises, Competency Assurance, etc.**
 - **A practical, more applicable alternative to refresher courses**

Customized Programs (cont.)

Third Party Surveyors/Auditors including Class Society, Flag State, Third Party, Independent Consultants, Investigative Branches/Services



Photo Credit: Otto Greule Jr. / Getty Images

Customized Programs (cont.)

- **DP System Providers**
 - Program can be applied during system specific DP “refresher” courses
 - Program can be packaged with DP system-specific onboard familiarization to provide comprehensive DP training program
- **Investigative Agencies**
 - Utilized as a training and ongoing development program for new and experienced investigative personnel
 - Conduct practical exercises on board offshore vessels to verify / demonstrate to investigators vessel WCF, etc.
 - Surveyors accompany experienced third party personnel during the execution of Annual Trials/DP Audits
 - Assesses adequacy of vessel policies and procedures and competency of vessel operational and management personnel as part of incident investigations

Customized Programs (cont.)

- **Government**
 - **Applicable to military operations (underway replenishment, equipment transport, etc.)**
 - **Utilized as a training program operational personnel involved in DP activities**
 - **Conduct practical exercises on board offshore vessels to demonstrate various applications for DP capable vessels and practicality of DP projects**

Conclusions

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Thank you for your time and attention.

