



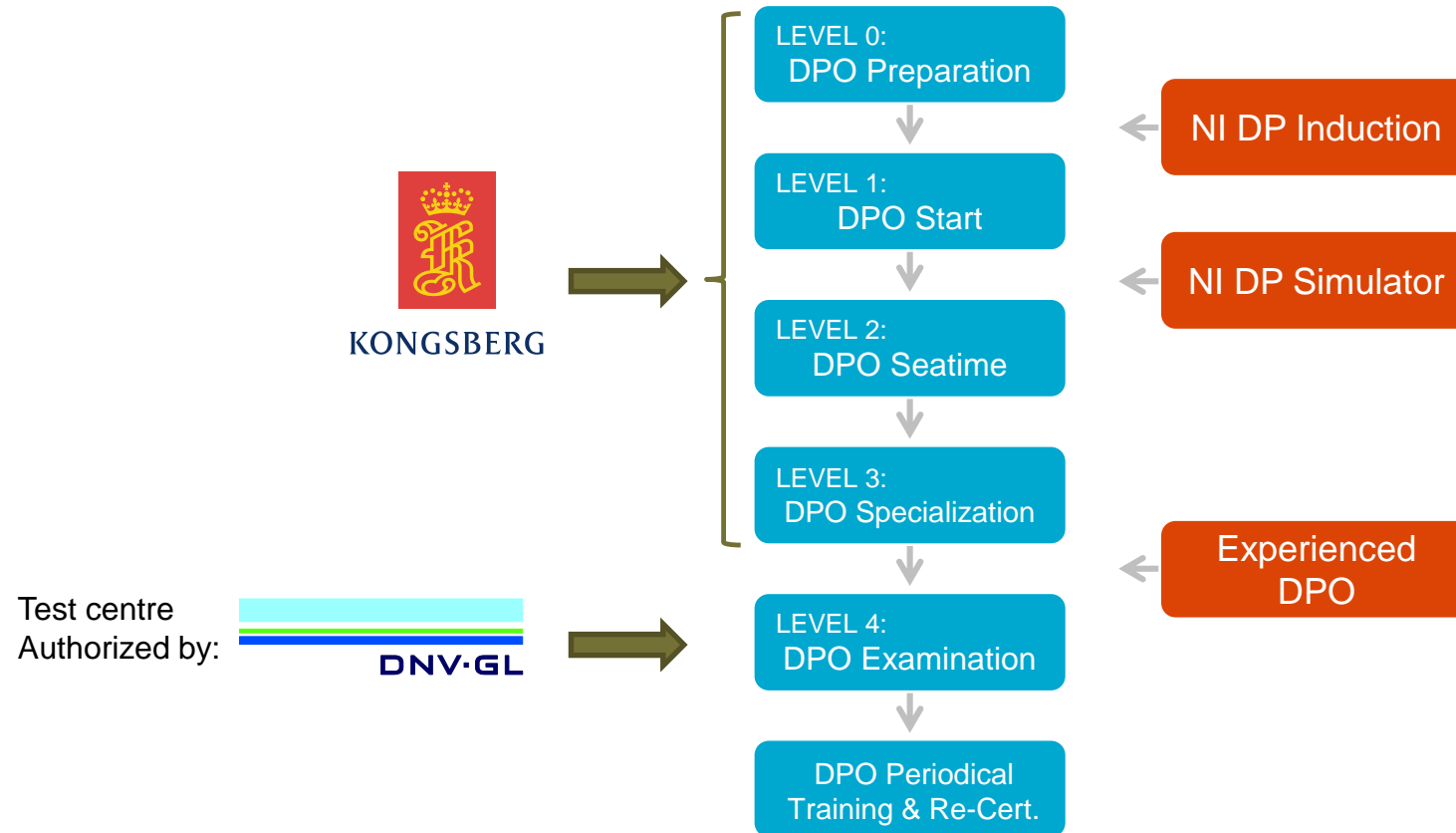
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DNV GL DPO Certification

Flowchart of education, experience and certification.

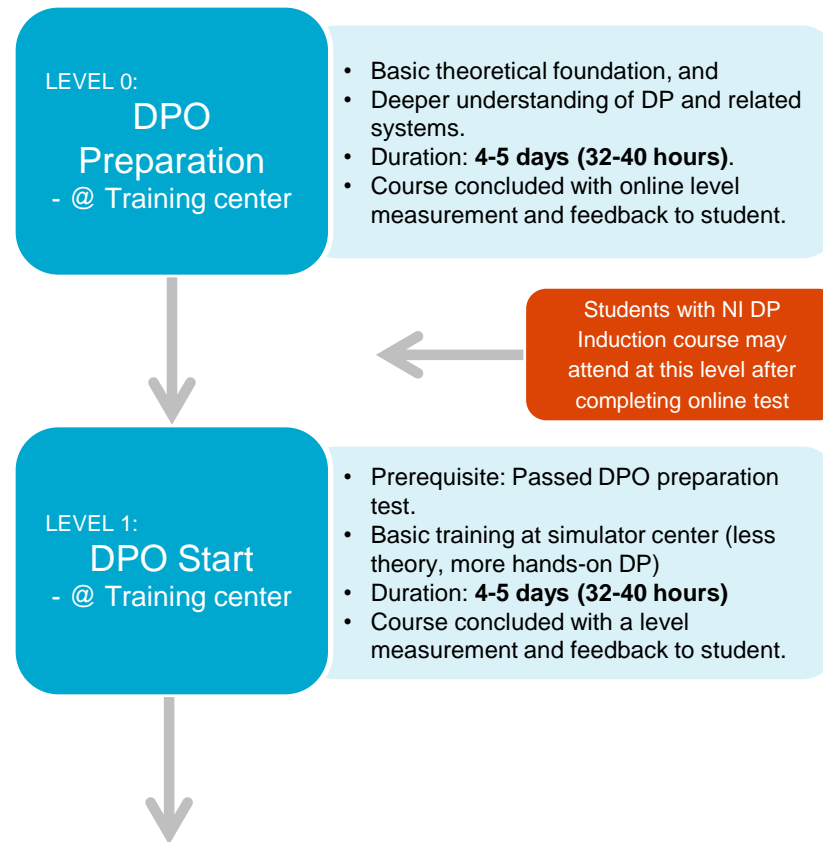


DNV GL DPO Certification Overview





Levels 0 & 1





Levels 2 & 3

Students with NI DP induction and DP Simulator courses may attend at this level after completing online test

LEVEL 2: Seatime requirements 270 hours DP watch/6 Supervised operations (Shuttle tank/Advanced Operations)

Alt. 1 Onboard practice Shuttle Tanker / PSV
Perform 6 supervised operations: approach, connect, loading & disconnect. (Active on DP)

Alt. 2 Onboard practice, gen.
Documented at least **270** hours of DP operation, reported on DNV GL Task List and IMCA Logbook.

Alt. 3 SeaTimeReduction
Onboard practice can be reduced by 30% (3 operations / 81 hours) by using full mission simulator training.
Duration: **5 days**

LEVEL 3: DPO Specialization @ Simulator centre Prerequisite: Completed Levels 0, 1 & 2

Course 1: "Station keeping"
Duration: 3 days
Contents: Autopos & Joystick

Course 2: "Shuttle tank"
Duration: 3 days
Contents: Autopos & Joystick, weather vane and approach

Course 3: "Adv. operations"
Duration: 4 days
Contents: Autopos & Joystick, Follow target and Autotrack

Course 4: "Rig"
Available 2018
Duration: 4 days
Contents: Autopos & Joystick, Posmoor functions

Course 5: "STL"
Available 2018
Duration: 4 days
Contents: Autopos & Joystick, STL Approach, STL Connect, STL Loading





Level 4

Very experienced personnel may attend exam directly and receive certificate upon completing theoretical and practical exam.



LEVEL 4:
DPO Examination & Certification
- Independent Test centre at Simulator centre

- Theoretical and practical assessment.
- High level of knowledge necessary to pass exams.
- Validity of new certificate: **5 years**
- Type specific certificate will be issued immediately after completed exams.
- Acoustic Positioning systems competence course required before issuing of "Advanced Operations" certificate.
- Offshore Loading Phase II course required before issuing of "Shuttle tank" certificate.



Exam 1: "Station keeping" Duration: 1 day	Exam 2: "Shuttle tank" Duration: 1 day	Exam 3: "Adv. operations" Duration: 1 day	Exam 4: "Rig" Available 2018 Duration: 1 day	Exam 5: "STL" Available 2018 Duration: 1 day
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Exam 6:
"AutH"
Available 2018
Duration: 1 day
Content: Autopos & Headingcontrol



Notation code	Competent in the use of the following DP-systems	Example of operations
AJ/S	Autopos, Joystick.	Stationkeeping: Supply, Standby, Anchorhandling, Cruise, Well service, Accommodation, Lifting Operations, Construction, Diving.
AJ/DPA-WV	Autopos, Joystick, DP-Approach mode, Weather Vane,	Offshore Loading: Shuttle tankers. Loading systems: SPM, OLS, Tandem, FSL, SAL, DSL.
AJ/FT-AT	Autopos, Joystick, Follow Target, Autotrack.	ROV Operations, Cable laying, Pipe laying, Trenching, Dredging, Rock dumping.
AJ/DPA-STL	Autopos, Joystick, DP-Approach mode, STL-Connect, STL-Loading.	Submerged Turret Loading Operations.
AJ/POS	Autopos, Joystick, Anchorhandling, Posmoor, Drilling, Riser-Management.	Drilling Rig, Production Rig, use of DP while anchored and during drilling operations.
Auth	Autopos & Heading control	Cruise vessels, Yachts, Pleasure crafts, Fish farming, DP class 0 operations.





DPO Periodical training



DPO Periodical training

Minimum every 5 years - @ Training centre (recommended every 2,5 yrs.)

- Updates on technology
- Revision/updates on best practices
- Incidents, accidents, lessons learned
- Reporting criteria for DP-incidents
- Practical exposure to non-routine scenarios / emergencies (simulator)
- Re-assessment of DNV GL DPO Certificate

DP Refresh "Station keeping"

Duration: 3 days.

Re-assessment of
DNV GL DPO
certificate incl.

Offshore loading Ph. 3. "Shuttle tank"

Duration: 3 days.

Re-assessment of
DNV GL DPO
certificate incl.

DP Refresh "Adv. operations"

Duration: 3 days.

Re-assessment of
DNV GL DPO
certificate incl.

DP Refresh "Rig"

Duration: 3 days

Re-assessment of
DNV GL DPO
certificate incl.

DP Refresh "STL"

Duration: 3 days

Re-assessment of
DNV GL DPO
certificate incl.



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WORLD CLASS

THROUGH PEOPLE, TECHNOLOGY AND DEDICATION