

JET DRIVE ON BOARD TUITION SYLLABUS
THE JET BOAT GUY
CAPSTICK

MAY 2018

Learning checklist:

Difference between electrical stop and mechanical stop in nozzle & bucket hydraulic travel (emergency steering in engine room representing a mechanical stop, bridge controls electrical stop, & what to do if the feedback sensors fail resulting in mechanical stop from bridge manipulation (pressure release whistling with PTO engaged)

Using emergency steering in engine room (V24, V10, V11)

Check hydraulic oil on sight gauge

Check using dipstick

Identify filling point

What to do if a kamewa hose splits (alarms full house, shut down engine without delay to save the kamewa PTO)

Startup sequence (jets then engines)

How to engage reverse clutch to backflush turbine tunnels

Identify gearbox command lever, inspected its travel and confirmed backlash works by observing counter rotation of shaft when engaged

Ahead alongside

Astern alongside

MOB recovery

Reverse clutch (backwash)

Anchoring

Turning & arresting turns

Which turning method to use by situation

Getting out of trouble & delaying the moment of commitment

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When to abandon a stern to maneuver & when not to
(emphasis on persevering if the stern is past the ground lines
of neighboring vessels)

Nozzle setup for specific situations to minimize human error
(reliable, repeatable methods)

Toe in and toe out techniques for coming alongside and away

Reversing in a straight line

Reversing down a narrow channel

Turning a corner in astern

How to arrest unwanted crabbing

Moving the boat sideways including thruster

Moving the boat sideways without thruster

Stern to technique

Backup controls, increase idle rpm for best results

Advice given about:

When to clutch out and in

Keeping nozzles toed in until clear of obstructions

Not to worry if a turn goes bad, simply reverse bucket
position until clear of obstruction

Radio communication from crew - prioritise the crew
member in the area of most concern

Clearly identifying the end of a maneuver and the beginning
of warping

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Practical exercises and by the end of day 3 using techniques that do not include thrusters for the following maneuvers:

Coming alongside

Coming away

Reversing into a stern to berth.

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