



**SLICKLINE ASSISTANT  
WORKBOOK**

**IMPORTANT NOTE:**

1. Your point of reference to complete this workbook may be obtained from the following
  - Training Manual and any other training materials provided together with this workbook
  - Your Trainer, Assessor (Slickline Operator), Verifier (FSM) or senior colleagues
  - SOP / Quality Procedures & Processors
2. The completion of this Workbook is a joint effort and responsibility between you and your assessor therefore you have the obligation to request from your assessor to be assessed upon your completion of each topic
3. The completion of this Workbook is part of the MANDATORY requirements which you must fulfill to qualify for a promotion
4. Your training program is mostly self-driven, including this Workbook. It requires individual initiatives, dedication and commitment to complete the process.

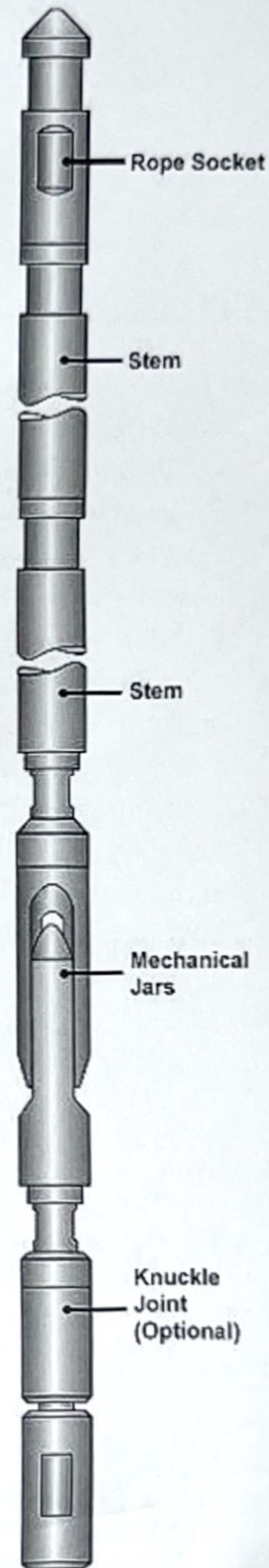
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<b>RECEIVED DATE</b>	<b>8/1/24</b>
<b>DATE COMPLETED</b>	<b>15/3/24</b>



**C. DOWNHOLE EQUIPMENT**

1. List out all basic running and pulling tools

No.	Items
1	<b>X running tool</b>
2	<b>R running tool</b>
3	<b>QXD running tool</b>
4	<b>QXT running tool</b>
5	<b>RB pulling tool</b>
6	<b>RS pulling tool</b>
7	<b>RJ pulling tool</b>
8	<b>SB pulling tool</b>
9	<b>SS pulling tool</b>
10	<b>SSJ pulling tool</b>
11	<b>JUC pulling tool</b>
12	<b>JUS pulling tool</b>
13	<b>JUL pulling tool</b>
14	<b>JDC pulling tool</b>
15	<b>JDS pulling tool</b>
16	<b>GSL pulling tool</b>
17	<b>GS pulling tool</b>
18	<b>GR pulling tool</b>
19	<b>PCE heavy duty pulling tool</b>
20	<b>JK running tool</b>

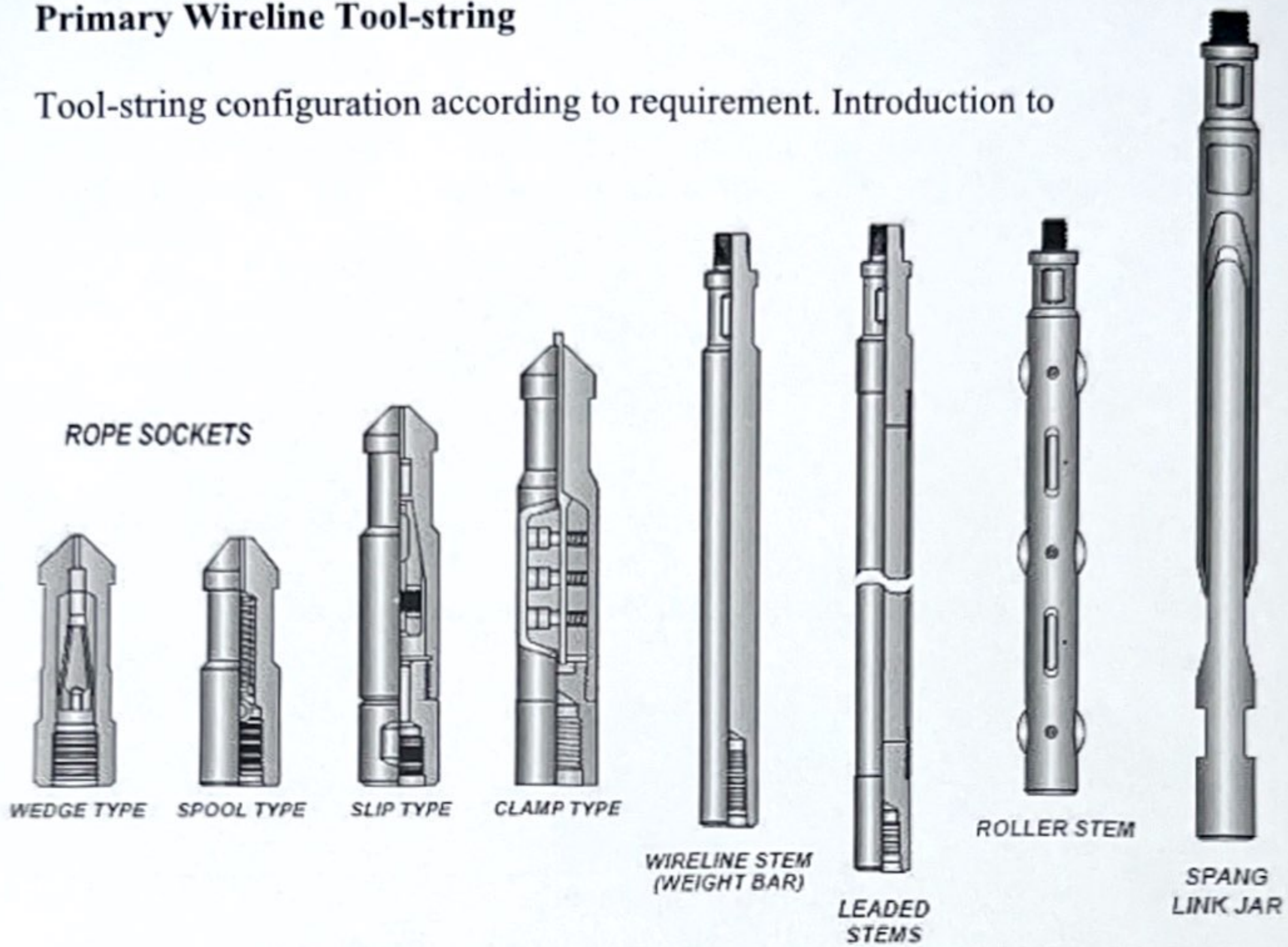


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**Primary Wireline Tool-string**

Tool-string configuration according to requirement. Introduction to



a) rope sockets

The uppermost component in the slickline toolstring and forms an essential link between the toolstring and the wire.

b) stem lead

Lead-filled stem (no heavy jarring action). Provide greater mass required in wireline operations.

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c) tungsten stem

Higher density of heavy weight stem. Used instead of conventional stems to provide kinetic energy to assist upward and downward jarring impact in higher pressure applications.

d) roller stem

Stem has the same 'weight' and 'mass' function as the regular stem but is designed with rollers to reduce the friction against the tubing wall in deviated wells. Tool consists of stem with slots to accommodate simple rollers held in position with pins.

e) jars

To deliver effective jarring down or up impacts. Also known as Stroke jar / Spang jar / Link jar and it has no removable parts. Composed of two pieces linked together which are free to be extended or collapsed.

Below are two lengths of jar stroke in closed position:

- For 20 inches jar is known as "20 stroke".
- For 30 inches jar is known as "30 stroke".





f) knuckle joints

To add flexibility to the toolstring and used in deviated well. Consists of two bodies which are connected to each other by ball and stem, and external fishing neck at the top sub. It is usually positioned immediately below the mechanical jars. Knuckle joints permits 15degree of sideways movement and should be used only when necessary.

g) swivel joints

To minimize the effect of twisting wire caused by downhole tools being run. It is also to reduce the toolstring charge-out time at surface during a series of runs in the well. Essential to use a swivel between rope socket and stem to prevent twisting of line in following toolstring. The swivel joint has a bearing incorporated into its design and its used to minimize rotation whilst running in tubing.

h) quick-lock coupling

Quick-lock coupling is to connect two wireline components without the use of wrenches. It allows rapid make-up and break out of toolstrings and eliminates the need for use of pipe wrenches.

Available types: QLS, HD-Quick Release Joint (QRJ) and Trinity.

i) gauge cutter

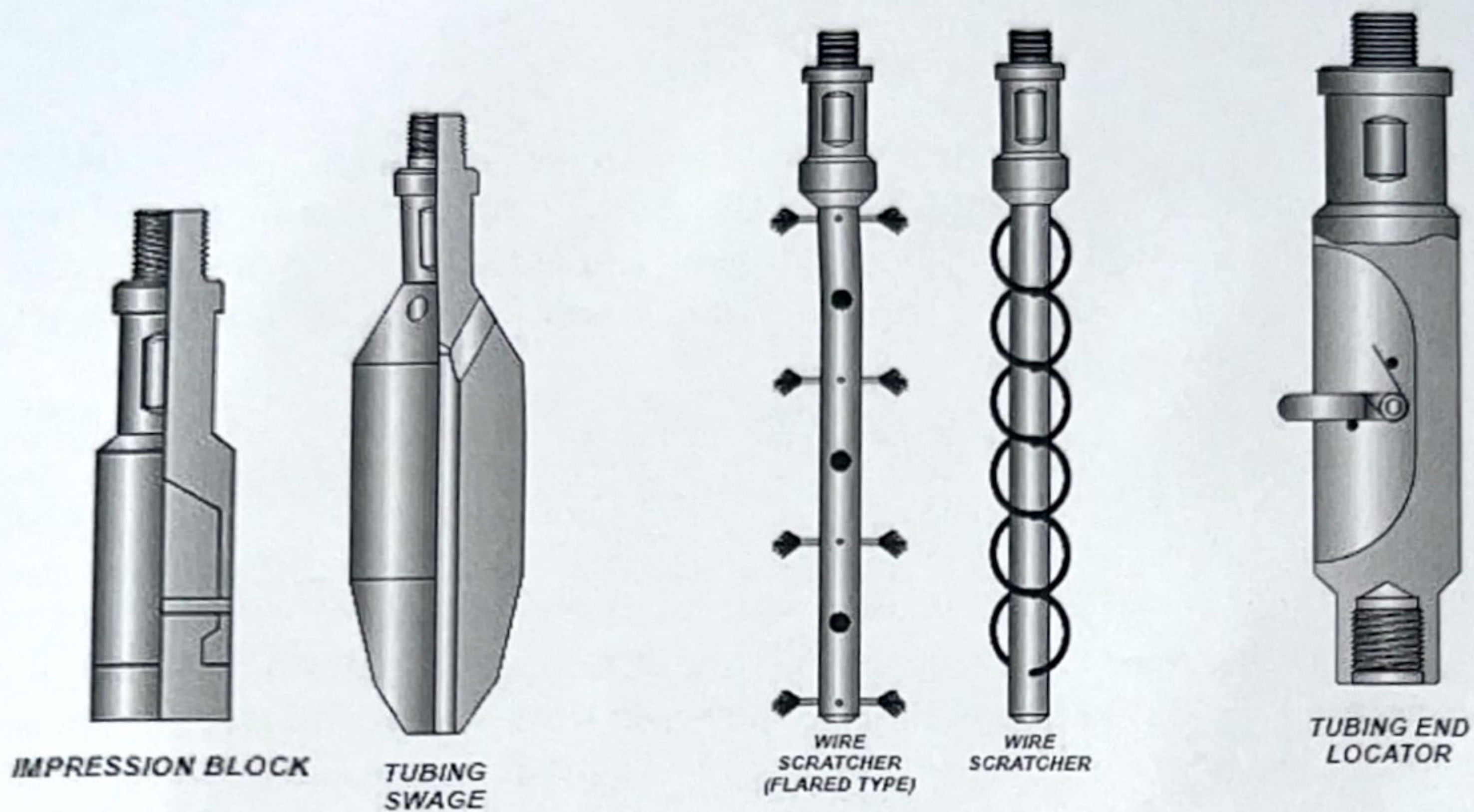
To check tubing ID, tag total depth, locate the nipple ID and No-Go, cut sand/scale/paraffin from tubing wall. Also known as Tubing Guage/ Guage ring. Can be used to run in hole before running sub-surface equipment.

j) Blind Box

Is used when heavy downward jarring is required to dislodge a fish, or push something down the hole. It is act as 'cutter bar', breaking the wireline at top of the rope socket of the toolstring that cannot be retrieved.

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k) lead impression box

Also known as 'bottom-hole camera'. Is used during fishing operations to check the shape or size of the top of fish and to determine the appropriate tool for the fishing operation.

l) swage

Swage is used to restore the light collapse in the tubing and to remove large obstructions. It is recommended to run with hydraulic/spring jar to enable the operator to jar up out the tubing if the swage jam.

m) wire scratcher

It is a piece of brush-like tool. The function is to clear wax, scale and sand in the tubing wall. Nipple profiles, SSD sleeves and Side Pocket Mandrels. If the wire scratcher not effective in removing the depositions, guage cutter/ringand tubing broch will be used.

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n) tubing end locator

To lock end of tubing and measure depth of tubing end at completion

o) wire recover tool

To fish/retrieve the wire



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Fill in below Table

A. Size of wire that use in DB	B. Breaking point of each wire
1. 0.108"	1. 2125 lbs
2. 0.125"	2. 3300 lbs
3. 0.140"	3. 4050 lbs



<p>C. Type of wire used in DB</p> <ol style="list-style-type: none"> <li>1. ZAPPS</li> <li>2.</li> <li>3.</li> </ol>	<p>D. How to test if wire is good or not</p> <ol style="list-style-type: none"> <li>1. Wire pull test</li> <li>2. Torsion test</li> <li>3.</li> </ol>
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E. Why do we need to check the tools before running in hole (RIH)?

To make sure toolstring are fully function.


F. What do we need to do if the tool is damage or lost in hole?

Stop work then discuss what need to do with CSR and lastly prepare for fishing plan.

G. What do we need to do if equipment failed to work?

Report to FSM then discuss what need to do with CSR. Prepare for major troubleshootssuch as request for mechanic or request for new equipment.

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