

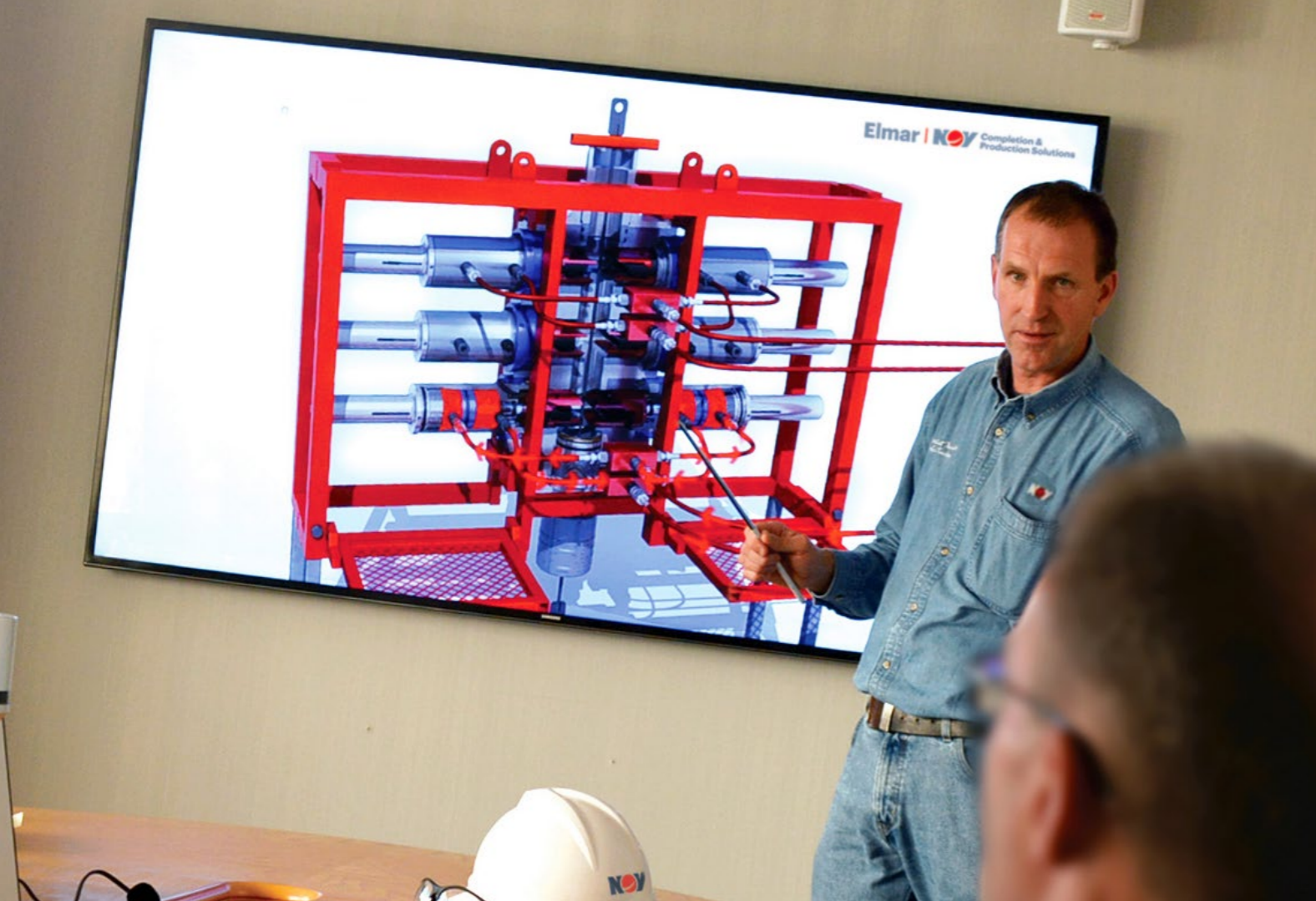


Wireline & Flowline Training Services

Anson | Artex | ASEP | Axelson | DynaWinch | Elmar

NOV Completion &
Production Solutions

NOV Completion &
Production Solutions



Global On-Site Training

to suit your operations

Expert training to amplify your investments.

Effective training plays a critical role in the safety of your crew and the success of your operations. Having an expertly trained team representing you in the field is the best way to ensure your clients are satisfied time after time.

Our training programs are designed with your needs in mind and cover every product we sell, whether it's a single valve, an actuator, a wireline pressure control set, or a full-blown wireline logging winch.

Using expertise gained from years in the field, our experienced trainers use a combination of classroom reviews, advanced animations, and practical hands-on training to ensure your team gains a clear understanding of safe operations and equipment maintenance procedures. Using animations enables your crews to easily visualize equipment in use, view component breakdown, and safely learn how to identify and anticipate problematic scenarios.

Our aim is to maximize the value of your investment through training. Our dedicated team of training experts is available globally to provide the hands-on or virtual services you need—either at your location or in one of our state of the art facilities.

Designed for maximum effectiveness and efficiency.

Our training programs follow tried and true methods, honed over many years, to deliver leading-class instruction to new and experienced crews alike.

We understand that not everyone learns the same way, so our training is designed with a multi-pronged approach. To facilitate fast and effective learning, your crew will experience an intimate training atmosphere where everyone receives dedicated attention. Classroom sessions, supported by animations and high-quality take-home reference and training manuals, are followed by practical hands-on workshop sessions that develop immediate, practical skills.

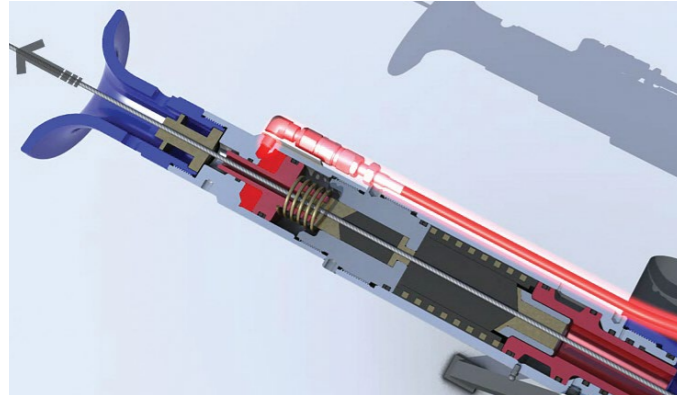
Upon successful completion of the training course and assessment, your team will be awarded a coveted NOV training completion certificate—and will be better prepared for well site operations and maintenance.

Products from:

- Anson
- Artex
- ASEP
- Axelson
- DynaWinch
- Elmar

Our training courses include:

- Axelson hydraulic actuators
- 10K, 15K, 20K, WPCE operation
- WPCE maintenance
- Wireline mast operation
- Wireline winch operation
- Wireline winch maintenance
- Plugs and running tools
- LineMinder operation and calibration



10,000-psi WPCE Operational Training

Course Overview

- Maximum of 8 candidates
- 4 days of classroom and practical training
- Pressure control theory
- Practical workshop operations
- Final rig up to put all you have learned into practice
- Assessment system
- Introduction to wireline pressure control equipment
- Pressure control safety
- Relevant design, manufacturing and certification standards
- Wireline pressure control equipment hardware
- Elmar 10,000-psi grease and hydraulic control modules
- Pressure tight seals and fittings
- Using the cased hole pressure equipment
- Problem situations
- Large bore pressure control equipment for OH and CH



15,000-psi WPCE Operational Training

Course Overview

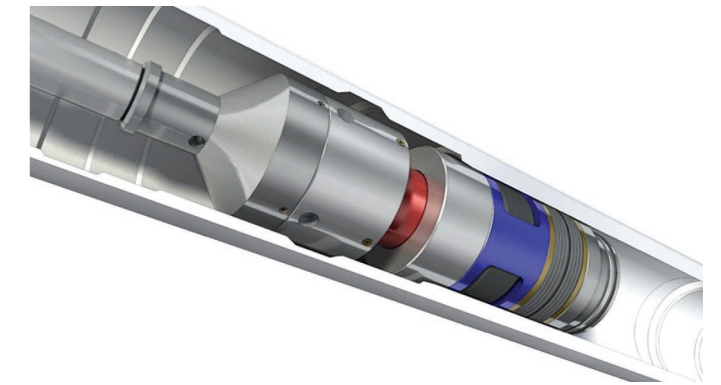
- Maximum of 8 candidates
- 3 days of classroom and practical training.
- Pressure control theory with focus on high pressure high temperature (HPHT)
- Final rig up to put all you have learned into practice
- Recommended that students first attend 10,000 psi training
- Safety
- Elmar 15,000-psi H2S wireline pressure control system
- General description of component parts
- Wellhead adapters and unions
- Elmar 15,000 psi grease injection module
- Pump pressure and grease flow
- Elmar 15,000-psi hydraulic module with fluid injection and wellhead pressure monitor
- Hydraulic accumulator
- Air regulator valve
- Elmar reels



Wireline Mast Operational Training

Course Overview

- Maximum of 6 candidates
- Up to 2 days of classroom and practical training
- Safe set up and operation of wireline mast
- Practical operation with client's offshore or truck-mounted mast
- Introduction
- Overview of all relevant lifting standards and regulations
- General mast operational overview
- Policies, safety and product standards
- Practical demonstration of rig up and rig down
- Basic maintenance and inspection of the equipment



Crown Plug and Tools Training

Course Overview

- Maximum of 4 candidates
- 1 day classroom and practical training
- Operation and maintenance procedures of crown plugs, running tools, and pulling tools
- Practical workshop tuition
- Introduction to the plug functions
- General overview of running and pulling tool
- Overview of safety standards and guidelines
- Maintenance of equipment

Heavy-Duty Winch Training

Course Overview

- Maximum of 4 candidates
- 2 day classroom and practical training
- Operation and basic maintenance of heavy-duty logging skids and trucks
- Practical workshop tuition using customer owned NOV wireline winch or wireline truck
- Full explanation of the function of all components and all certification required for the transportation and operation of the equipment
- Basic operation and basic servicing of the equipment
- Operation of pressurisation system and operation of fire and gas systems
- Basic servicing of the equipment
- Calibration of the measuring device
- Basic troubleshooting



Compact Wireline Winch Training

Course Overview

- Maximum of 4 candidates
- 2 day classroom and practical training
- Operation and basic maintenance of compact wireline winches
- Practical workshop tuition using customer owned NOV wireline winches
- Full explanation of the function of all components and all certification required for the transportation and operation of the equipment
- Basic operation and basic servicing of the equipment
- Calibration of the measuring device
- Basic inspection and troubleshooting

Smart Systems Training

Course Overview

- Maximum of 6 candidates
- 1 day classroom and practical training
- Advanced operation of the LineMinder
- Practical workshop tuition
- Basic operation
- Downloading of data and uploading of parameters
- Calibration
- Troubleshooting



Advanced Maintenance Training

Course Overview

- Maximum of 6 candidates
- 5 day classroom and practical training
- Advanced operation and maintenance of wireline winches, skids or truck mounted
- Practical tuition with customers' NOV winch or wireline truck
- Basic description of the function of all components and systems
- Full explanation of the unit certification
- Training on the hydraulic system and the electrical system
- In-depth explanation on all service points
- Training on all shutdown systems
- Training on fault-finding and servicing of the engine
- General troubleshooting



Valves and Surface Test Tree Training

Course Overview

- Maximum of 8 candidates
- 2 day classroom and practical training
- Operation, basic maintenance, and inspection
- Practical workshop tuition using customers' NOV equipment
- Full explanation of the function of all components and all certification
- Basic operation and basic servicing of the equipment
- Calibration of the measuring device
- Basic inspection and troubleshooting



Actuator and Control Systems Training

Course Overview

- Maximum of 8 candidates
- 1 day classroom and practical training
- Operation and basic maintenance
- Practical workshop tuition using customers' NOV equipment
- Full explanation of the function of all components and all certification
- Basic operation and servicing of the equipment



Regional Centers:

UK

Toftills Avenue
Midmill Business Park
Kintore, Aberdeenshire
AB51 0QP, Scotland
United Kingdom
T +44 1224 740261
wireline@nov.com

USA

8017 Breen Road
Houston, TX 77064
United States of America
T +1 346 223 5000
wireline@nov.com

Singapore

7 Loyang Way
Singapore 508721
T +65 6546 0928
wireline@nov.com

Canada

(DynaWinch Products)

6771 - 84 Street SE
Calgary, Alberta
T2C 4T6
Canada
T +1 403 319 2333
wireline@nov.com

UAE

Street N400, Plot MO 0320
P.O Box No: 61490
Jebel Ali Free Zone
Dubai, United Arab Emirates
T +971 4 810 0100
wireline@nov.com

Regional Sales, Rental & Service Locations:

Al-Khobar, Saudi Arabia

T +966 13 835 3061
wireline@nov.com

Abu Dhabi, UAE

T +971 2 550 1875
wireline@nov.com

Groot-Ammers Netherlands

T +31 64 617 0523
wireline@nov.com

Stavanger, Norway

T +47 51 81 81 81
wireline@nov.com

Perth, Australia

T +61 8 6279 5799
wireline@nov.com

New Iberia, USA

T +1 985 872 5215
wireline@nov.com

Odessa, USA

T +1 432 688 1425
wireline@nov.com

Baku, Azerbaijan

T +99 412 505 8282
wireline@nov.com

Mumbai, India

T +91 22 6174 3000
wireline@nov.com

Macaé, Brazil

T +55 22 9811 11400
wireline@nov.com

Neuquén, Argentina

T +54 92 9940 90134
wireline@nov.com

Representative Offices:

Beijing, China

T +86 10 5707 0789
wireline@nov.com

Corporate Headquarters

10353 Richmond Avenue
Houston, Texas 77042
USA

NOV Inc. has produced this brochure for general information only, and it is not intended for design purposes. Although every effort has been made to maintain the accuracy and reliability of its contents, NOV Inc. in no way assumes responsibility for liability for any loss, damage or injury resulting from the use of information and data herein. All applications for the material described are at the user's risk and are the user's responsibility.

©2023 NOV Inc. All rights reserved.
JIG 23-CAPS-ISE-WLF-1086

