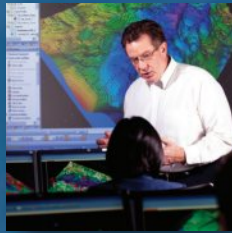# NExT
A Schlumberger Company

COMPLETE SUITE OF TRAINING
AND COMPETENCY DEVELOPMENT

BACKGROUND

In 2000, Schlumberger and three universities that offer petroleum studies programs created NExT Network for Excellence in Training. The three institutions—Texas A&M University, University of Oklahoma, and Heriot-Watt University —built strong links within the energy industry and combined their educational capabilities with the operational experience of Schlumberger professionals to provide the NExT organization with training and development expertise.

Schlumberger acquired the commercial rights of NExT and retained the program's original pool of instructors. To bring a wider variety of technical and regional experience, Schlumberger petrotechnical experts, and industry-recognized consultants were added to NExT staff.

Today, NExT has more than 3,000 expert instructors who train more than 15,000 technical professionals each year in 11 core disciplines—from characterization and exploration through development and production—and in industry-spanning domains. Its modular training curricula is designed to meet your competency development goals for a wide range of experience levels.

†Bowman, C., Cotton, W.B., Gunter, G.I. Johnson, J.D., Millheim, K., North, B., Smart, B. and Tuedor, F: "The Next Step in Collaborative Training," *Oilfield Review* (Summer 2000) 12, No. 2, 30–41.

The NExT Edge

1. Full suite of training courses in upstream oil and gas industry disciplines as well as surface facility and midstream training for operators and technicians

2. Training on industry-leading software tools and software certification

3. Partnership with advanced industry and academic institutions to deliver best-in-class oil and gas technical and software training

4. A teaching faculty of more than 3,000 independent instructors, all experts in their fields, with a wide variety of technical and regional experience

5. Winner of 2013, 2014, 2015 Getenergy Training Provider of the Year Award and 2016 Getenergy Localization Award, reinforcing NExT as the industry's trusted partner for training and competency development

6. Access to a global network of Schlumberger training centers, where Schlumberger trains its customers as well as its own staff

NExT TRAINING PORTFOLIO

Public and Private Classes	Training Programs	Competency Management
Petrotechnical disciplines	Classroom	Job profile and proficiency level definition
Facilities, operations, and maintenance	Workshop and field exposure	Competency assessment
Management and economics	On-the-job mentoring	Development planning and implementation
Health, safety, and environment (HSE)		Revision and evaluation
Schlumberger software		

getenergy
GLOBAL EDUCATION & TRAINING FOR ENERGY

Winner:
2013, 2014, 2015 Getenergy Training Provider of the Year Award
2016 Getenergy Localization Award

NExT OFFERINGS

To meet the educational and career-advancement needs of oil and gas professionals worldwide, and to enhance E&P professionals' core competencies, NExT offers comprehensive, customized training programs that fit the needs of your organization. Covering the entire breadth of the E&P domain, NExT builds development programs that span core industry disciplines and challenges.

The NExT team of technical and software experts is committed to employing the best instructors, producing materials to the highest standard, and ensuring that curricula evolve to embrace the latest technology advances.

By employing a comprehensive course- and instructor-evaluation system, NExT assures that a continuous QA process is in place and that faculty members are technical experts as well as competent teachers.

NExT Client Advisory Board

- BG Group
- Ecopetrol
- Al-Khafji Joint Operations (KJO)
- Kuwait Oil Company (KOC)
- Newfield Exploration
- Petronas
- Abu Dhabi Company for Onshore Oil Operations (ADCO)
- Petroamazonas
- Saudi Aramco
- Shell
- Sonangol Group
- Sonatrach
- Total

By working with industry and university partners as well as client advisory board members, NExT continually incorporates emerging and industry-relevant concepts and technologies to its curricula. Its faculty has gained a wide variety of technical and regional experiences that allows NExT to bring world-class expertise to address each customer's unique skills and training requirements.

Petrotechnical Disciplines	Facilities Operations & Maintenance	Management Economics & Finance	HSE	Technical Challenges	Schlumberger Software	
Geology and geophysics	Surface facilities design and engineering	Management and leadership	Health	Deep water	Geology	Production engineering
Petrophysics	Technician and operator training	Economics and finance	Safety	Unconventional resources	Geophysics	Information management
Drilling engineering			Environment	Geomechanics	Petrophysics	Economics and finance
Reservoir engineering				Enhanced oil recovery	Drilling engineering	Surface facilities design and engineering
Production engineering					Reservoir engineering	

Covering the entire breadth of the E&P domain, NExT builds development programs that span core industry disciplines and challenges.

HERIOT WATT UNIVERSITY

A&M

OU

Ensuring training excellence with our university partners.

TRAINING PROGRAMS

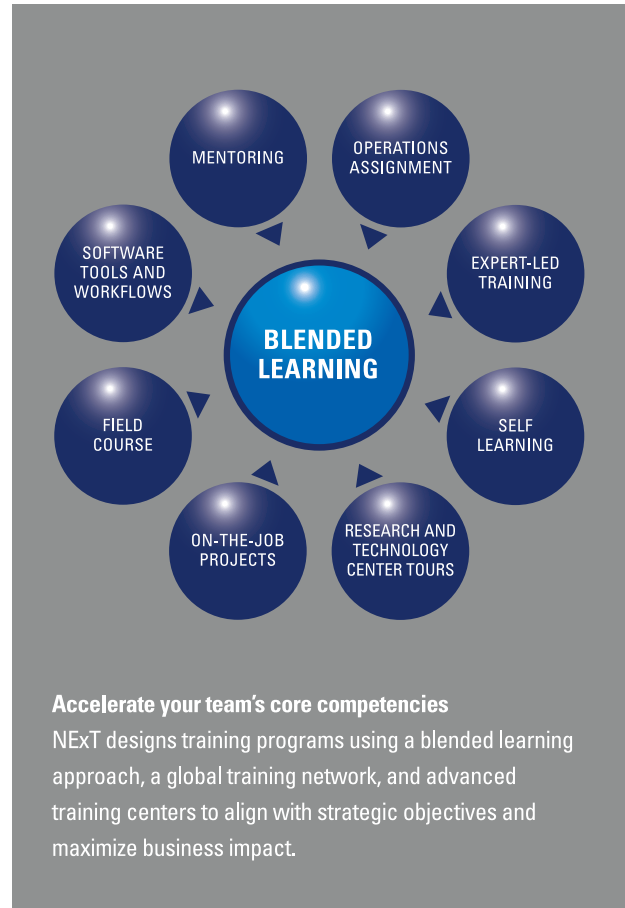## Modular training that meets objectives

Through one-on-one expert software and technical instruction and field and lab courses delivered in hands-on learning environment, NExT provides a targeted skills-development program that accelerates teams' core competencies. Examples of training programs include

- Subsurface Integration Program
- Immersive Exploration Program
- International Oil and Gas Management Program
- Subsurface Engineering for New Hires
- Unconventional Resources Program
- Production Optimization
- Integrated Field Development Program
- Drilling and Completions Program.

On-the-job training

On-the-job training programs are available for individuals or for groups of customers and include a permanent or time-structured mentor. Students perform real job tasks with their own data, accelerating time to autonomy.

MENTORING · OPERATIONS ASSIGNMENT · SOFTWARE TOOLS AND WORKFLOWS · EXPERT-LED TRAINING · BLENDED LEARNING · FIELD COURSE · SELF LEARNING · ON-THE-JOB PROJECTS · RESEARCH AND TECHNOLOGY CENTER TOURS

Accelerate your team's core competencies
NExT designs training programs using a blended learning approach, a global training network, and advanced training centers to align with strategic objectives and maximize business impact.

- Industry expertise
- Classroom
- Software

- Visiting mentors
- Permanent mentors

- Asset objectives
- Field data
- Well data

- Workshops
- Rig visits
- Field trips
- Lab visits

- In-field segments
- Consulting hub
- Field trips

- Office instruction
- Lab visits
- IT infrastructure

- Handouts
- Checklists
- Learning objectives

THEORY · MENTORING · FIELD OPERATIONS · CUSTOMER FACILITIES · MATERIAL · SCHLUMBERGER FACILITIES · PROJECT WORK · ON-THE-JOB TRAINING

OIL AND GAS SOFTWARE TRAINING

Today, E&P companies face numerous challenges—not only to explore and produce complex hydrocarbon environments, but also to keep technical staff trained to successfully approach and overcome those challenges.

NExT is dedicated to the professional development of E&P industry professionals, accelerating the development of oil and gas professionals through competency management services, training programs, classroom instruction, mentoring, technical domain courses, and software training certification programs.

Gain the expertise to meet today's complex challenges

Schlumberger understands that learning and adopting new technologies and workflows can be a huge challenge. NExT applies hands-on software instruction and domain training to relevant industry challenges such as deep water, shale, and heavy oil.

NExT training on industry-standard Schlumberger software allows maximizing return on software investment by accelerating technology adoption among customers' technical staff. With software training that meets the needs of professionals with varying levels of experience, NExT empowers teams to reach higher levels of productivity with workflow-focused courses.

Application

- Training in Schlumberger platforms and foundation software

Benefits

- Maximize return on software investments
- Adopt technology faster and use more advanced software capabilities through hands-on training
- Reach higher levels of productivity with advanced or workflow-focused courses

Features

- Combined domain and software courses, focusing on industry challenges such as deep water, shale, and heavy oil
- Training centers around the world that offer courses in state-of-the-art facilities
- Private courses delivered at your offices
- Custom courses tailored to your workflows

Hands-on training enables geoscientists to take full advantage of the advanced features and applications of Schlumberger software.
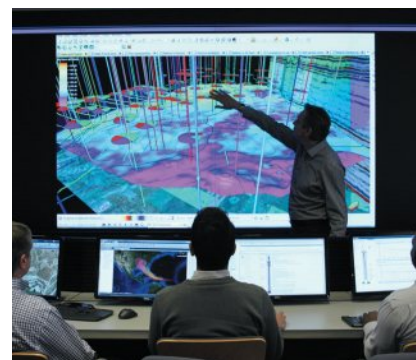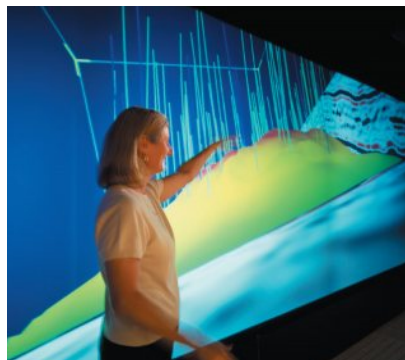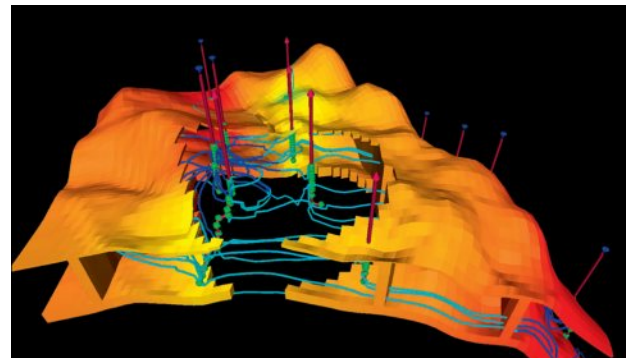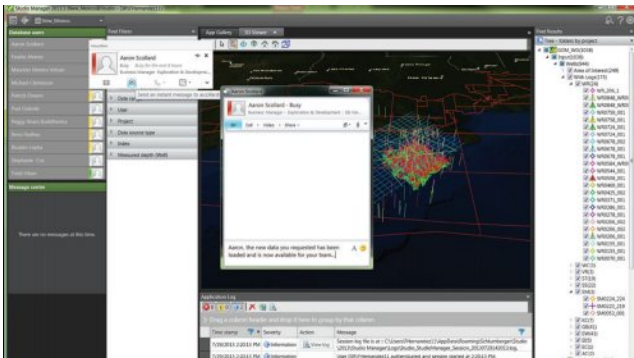
SCHLUMBERGER SOFTWARE TRAINING

Software platforms

Petrel   Techlog   Avocet   Studio   ocean

- Petrel* E&P software platform
- Techlog* wellbore software platform
- Avocet* production operations software platform
- Studio* E&P knowledge environment
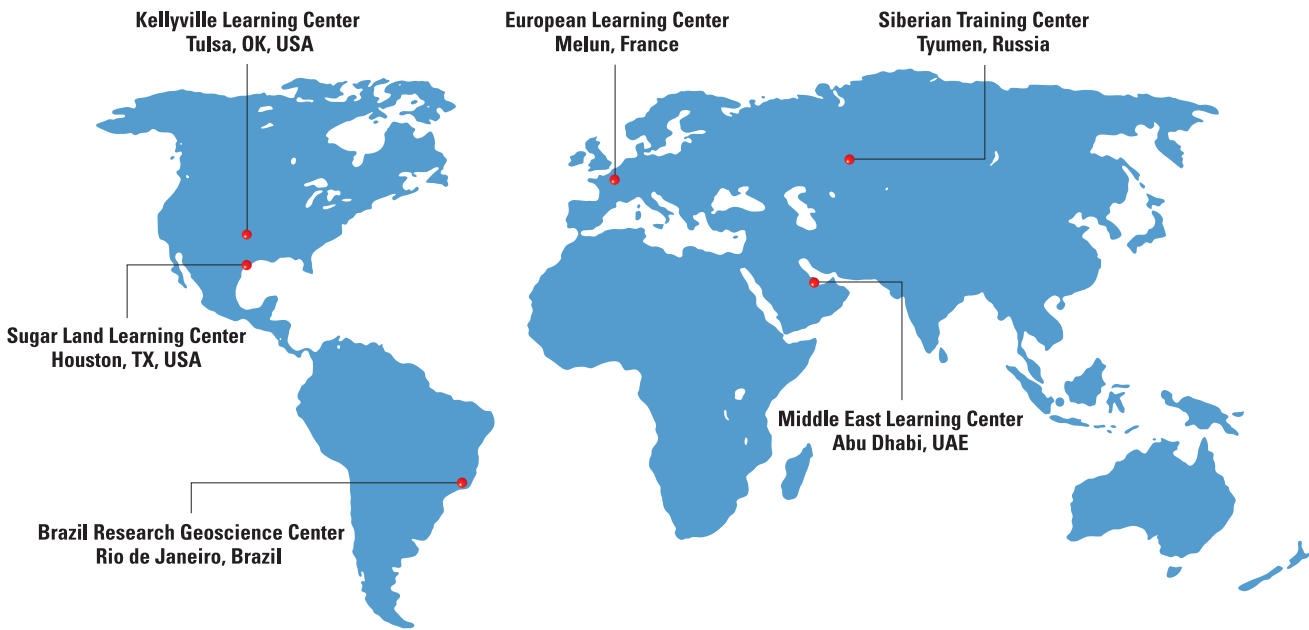- Ocean* software development framework

Foundation software

- Drillbench software
- ECLIPSE* reservoir simulation software
- GeoFrame* reservoir characterization software
- GeoX exploration risk and resource assessment software
- InnerLogix* data quality management solution
- INTERSECT* next-generation reservoir simulation software
- Malcom* interactive fluid characterization software
- MEPO multiple realization optimizer
- Merak* planning, risk, and reserves software
- OFM* well and reservoir analysis software
- OLGA dynamic multiphase flow simulator
- Omega* seismic data processing software
- PetroMod* petroleum systems modeling software
- PIPESIM* production system analysis software
- ProSource* E&P corporate information management system
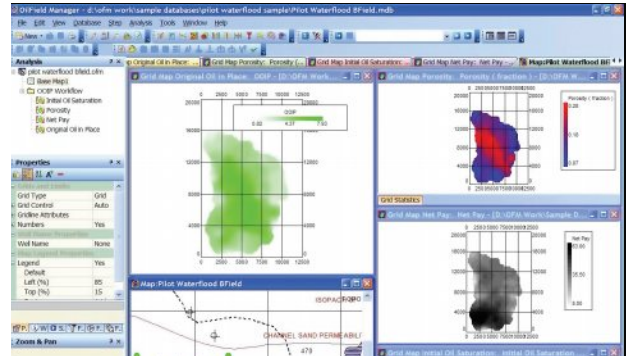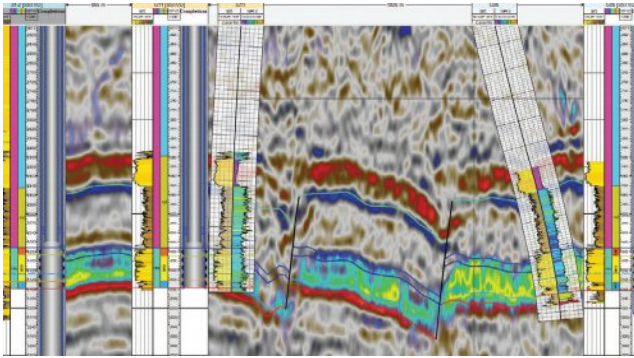
NExT training in industry-leading Schlumberger software helps develop the petrotechnical skills needed to meet today's complex industry challenges.

SCHLUMBERGER LEARNING CENTERS

Kellyville Learning Center
Tulsa, OK, USA

European Learning Center
Melun, France

Siberian Training Center
Tyumen, Russia

Sugar Land Learning Center
Houston, TX, USA

Middle East Learning Center
Abu Dhabi, UAE

Brazil Research Geoscience Center
Rio de Janeiro, Brazil

NExT has access to well-equipped, global Schlumberger training centers and technical facilities, where participants gain practical, hands-on experiences.

COMPETENCY MANAGEMENT

An E&P organization's development activity, growth plans, and performance, depend on a talented, technical workforce. To be successful, business leaders must synchronize technical talent—the combination of skills, job capability, and knowledge—with business strategy. Competency management is the best way to ensure this synchronization. Through assessment, training, and testing, competency management matches each asset teams' skills to the company's needs and goals.

For small teams and for hundreds of people spanning multiple asset teams, NExT has helped E&P organizations and professionals worldwide assess their talent, design training programs, and develop technical capabilities.

Competency assessment software

Competency management services include initial assessments, competency-gap analysis, curriculum development, and training as well as follow-up verification to quantify improvements using multilingual competency assessment software at all stages of the process. Our competency assessment software contains built-in knowledge matrices with more than 1,000 job profiles and individual training plans.
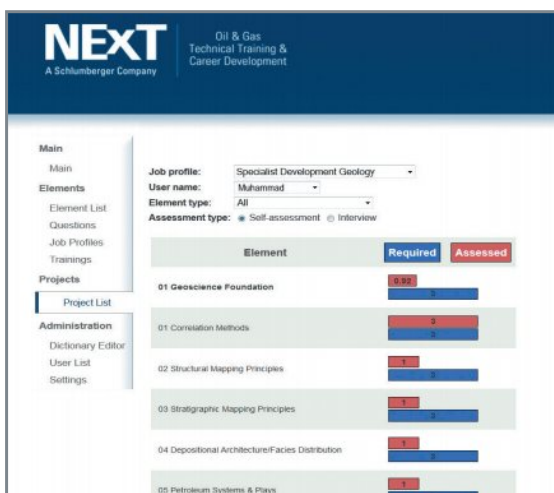

Competency assessment software tool is used in all stages of assessment.

" *Lukoil Overseas expresses its gratitude to NExT for the knowledge, skill, and competency assessment of the West Qurna specialists. This project contributed to solving tactical issues the company faced in rotating the personnel and strategic issues preparing training plans aimed at developing our specialists. The project was carried out at a high level and within the shortest time frame.* "

Inna Gubareva
Acting Head of HR Division & Organizational Development

Competency Management Model
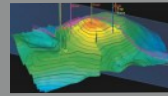
1. Strategy
A sound strategy that considers organizational needs, business direction, competency goals, and job profiles is developed to build detailed job and assignment descriptions.

2. Road Map
Using strategy inputs, a customized competency model is developed per relevant discipline with a defined proficiency for each level.

3. Assessment
Through a combination of self-assessment, testing, and individual interviews by technical experts, a comprehensive organization health check is completed providing an actionable snapshot that includes strengths, technical gaps, and areas for improvement.

4. Training
Targeting identified technical gaps, a training program is designed to achieve the fastest path for each team's development.

5. Impact
To verify the impact of the training, an assessment is repeated and compared to the initial assessment. Further development recommendations are provided to ensure that each team's technical skills help drive company performance.

### Improved performance through targeted training

Using a proven, scalable, five-step process, NExT delivers competency management projects customized to each company's unique needs at different scales—from accelerated team development projects spanning several weeks to immersive programs following asset teams through multiple assignments.

Successful Competency Assessment Projects

- Petroliam Nasional Berhad (Petronas)
- Petróleos Mexicanos (Pemex)
- Sonangol Group
- Société Nationale des Hydrocarbures (SNH)
- Gazprom Neft
- PT MedcoEnergi Internasional Tbk (Medco)
- Japan Vietnam Petroleum Corporation (JVPC)
- Cuu Long Joint Operating Company (CLJOC)
- Yemen company for Investment in Oil & Minerals (YICOM)
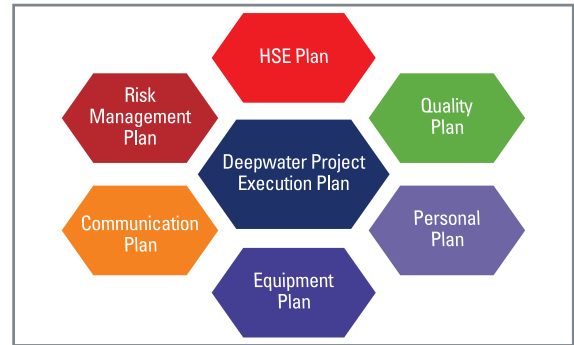
INDUSTRY CHALLENGES

Exploration
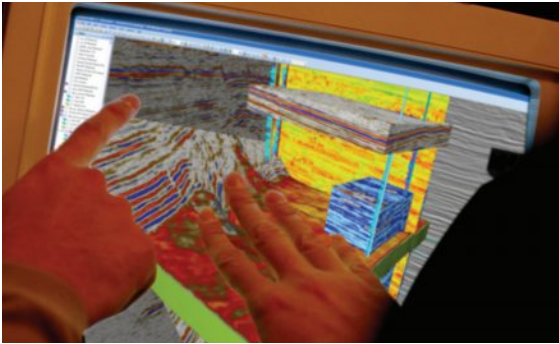
Exploration success depends on understanding and quantifying the key geological risk elements—trap, reservoir, charge, and seal. These elements are connected and affect one another; their relative timing will determine whether commercial hydrocarbons can be found and extracted. The fundamental aspect of the exploration function in the oil industry is to find fresh and new reserves. NExT has a portfolio of courses around exploration that covers all stages of the exploration value chain.

Deep Water

Much of the world's future production will come from deepwater developments in the Gulf of Mexico, Brazil, and West Africa as well the emerging petroleum basins of eastern Canada, the Arctic, and east Africa. NExT has a wide range of courses designed to help you develop your exploration, drilling, and production skills in deep water.

Unconventional Resources

The multidomain shale training program from NExT is the fastest, most effective way of equipping your team with the knowledge necessary to efficiently and properly identify and develop unconventional plays. Learn about these complex reserves from industry experts with decades of experience and by modeling actual shale prospects, visiting core laboratories, taking field trips, and presenting a pilot project developed in class.

EOR

The EOR program from NExT is fast-track training for experienced reservoir and simulation engineers who have limited expertise on EOR process, including EOR mechanisms, experimental analysis, and field implementations. This training focuses on miscible, immiscible, chemical, and thermal process for clastics and nonfractured carbonates and can include applications of the Petrel platform and ECLIPSE software to those processes.

IMMERSIVE LEARNING PROGRAMS

Surface Facilities

NExT offers a wide range of training related to maintenance and reliability design, facility engineering, and facility operations and maintenance as well as technician and operator training.

Project Management & Leadership

NExT project management and related training covers the application of knowledge, skills, and techniques to execute projects effectively and efficiently. The course follows the guidelines established by the Project Management Institute (PMI®) and its Project Management Body of Knowledge (PMBOK®).

Master's Degree Programs

NExT, in conjunction with Heriot Watt University, offers two advanced degree options for the next step in your career development:

• Petroleum Engineering Master's Degree Program

• Oil & Gas Industry Management Master's Degree Program.

HSE

HSE defines the principles by which organizations conduct their operations worldwide. Organizations today demonstrate their commitment to the highest standards of health and safety for their employees, customers, and contractors as well as to the protection of the environment and communities. NExT provides a wide range of training courses related to this important subject to ensure organizations are up to date in compliance and performance.
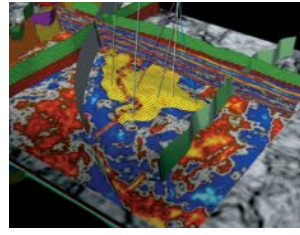
NSIP

The NExT Subsurface Integration Program (NSIP) is an intense, immersive mentoring and coaching program. Pore geometry, petrophysical rock typing, and flow units are analyzed to characterize reservoir and build a reservoir model.

Petrel

Petrel Professional Certification Program

Accommodating competency levels from fundamental to expert, the Petrel Certification Program offers individuals, academia, and corporations the prospect to

• validate skills and petrotechnical knowledge

• demonstrate competency levels from fundamental to expert

• obtain global recognition with industry-recognized standards

• earn certifications in geology and modeling, or geophysics.
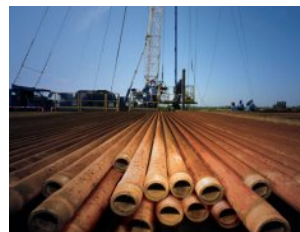
Well Control Certification and Drilling Simulation

NExT offers industry-recognized well control certification for land-based supervisors using the well control simulators at the European Learning Center in Melun, France. Courses on drilling operations use a computer-based drilling operations management simulator to drill a virtual well. Participants role-play key rig-site jobs to construct a well following a drilling program. This integrated PC-based simulator provides virtual on-the-job training by recreating the rig setup of a driller's station, drilling supervisor's station, and mud engineer's station.

GEOLOGY FIELD TRIPS

Where do you want your classroom to be?

Geology can be studied in the classroom, but it can be better understood in the field. Learning by doing puts things into their proper scale, context, and perspective. Examining first hand the results of time, weather, and tectonic forces allows geoscientists to gain greater insight into the formation of reservoirs.

With a carefully selected portfolio of practical, high-quality field trips covering relevant depositional and tectonic environments, NExT meets the needs of working geologists and petroleum engineers and the companies that rely on them to meet their goals.

Where do you want your classroom to be?

NExT Field Trip Sites

Map labels:

- **Utah and Colorado:** Fluvial and Deltaic Architecture and Advanced Modeling in the Petrel Platform
- **Casper, Wyoming:** Fracture Modeling in the Petrel Platform
- **South West Province, UK:** Late Paleozoic– Early Mesozoic Sedimentation
- **Cyprus: Cretaceous to** Recent Depositional History from a Remnant of the Tethys Ocean
- **Southern Pyrenees, Spain:** Foreland Basin Syntectonic Sedimentation
- **County Clare, Ireland:** Delta-Slope-Turbidite Deposition and Synsedimentary Deformation
- **Tabernas and Sorbas Basins, Spain:** Depositional Environments from Slope Aprons to Tropical Reefs
- **New Mexico and Texas:** Subsurface Integration Workshop
- **Abu Dhabi, UAE:** Arid Coastline Carbonates and Evaporites
- **Egypt: Syn-Rift Carbonate** Platforms, Miocene–Recent
- **Malta: Oligo-Miocene Carbonate** Sedimentary Models
- **Balearic Islands:** Reservoir-Scale Heterogeneity in Upper Miocene Platforms
- **Karoo, South Africa:** Permian Basin Floor Fan Systems

Broaden your exploration and production perspective

NExT field trips build expertise and develop practical interpretation skills by

- improving the understanding of geological complexities
- strengthening technical knowledge through exposure to new and diverse geological environments
- delivering broader perspectives and new insights through hands-on field experiences.

In addition to classroom lectures and exercises, hands-on experiences include trips to road cuts, ancient outcrops, modern sedimentary environments, core analysis laboratories, and research facilities.

NExT has expanded learning modules include integrated interpretation and modeling with interactive training in software applications like the Petrel platform.

NExT geology field trips broaden your understanding with first-hand experiences in field formation evaluation, log and core analysis, and 3D reservoir modeling. Field trip course topics include

- faults and fractures
- carbonate platforms and reefs
- shallow carbonates and evaporates
- fluvial-deltaic and deep-marine clastics
- rift zones
- turbidites
- deltaic fan systems.

# INTEGRATED FIELD DEVELOPMENT PROGRAM

NExT offers practical field development plan (FDP) training that accelerates and transforms technical skills. It builds expertise in FDP techniques, tools, and workflows that are needed to address the challenges of field developments.

This training is unique because it includes theory, software training, model building, workflows, and an in-class project designed to reinforce lessons and demonstrate the acquired practical skills and understanding.

The immersive, comprehensive curriculum starts from general understanding and extends to in-depth field assessment with economics, risk, and standard analysis techniques that provide a complete understanding of FDP.

Integrated FDP Program Flow

Data Integration

Static Model

Dynamic Model
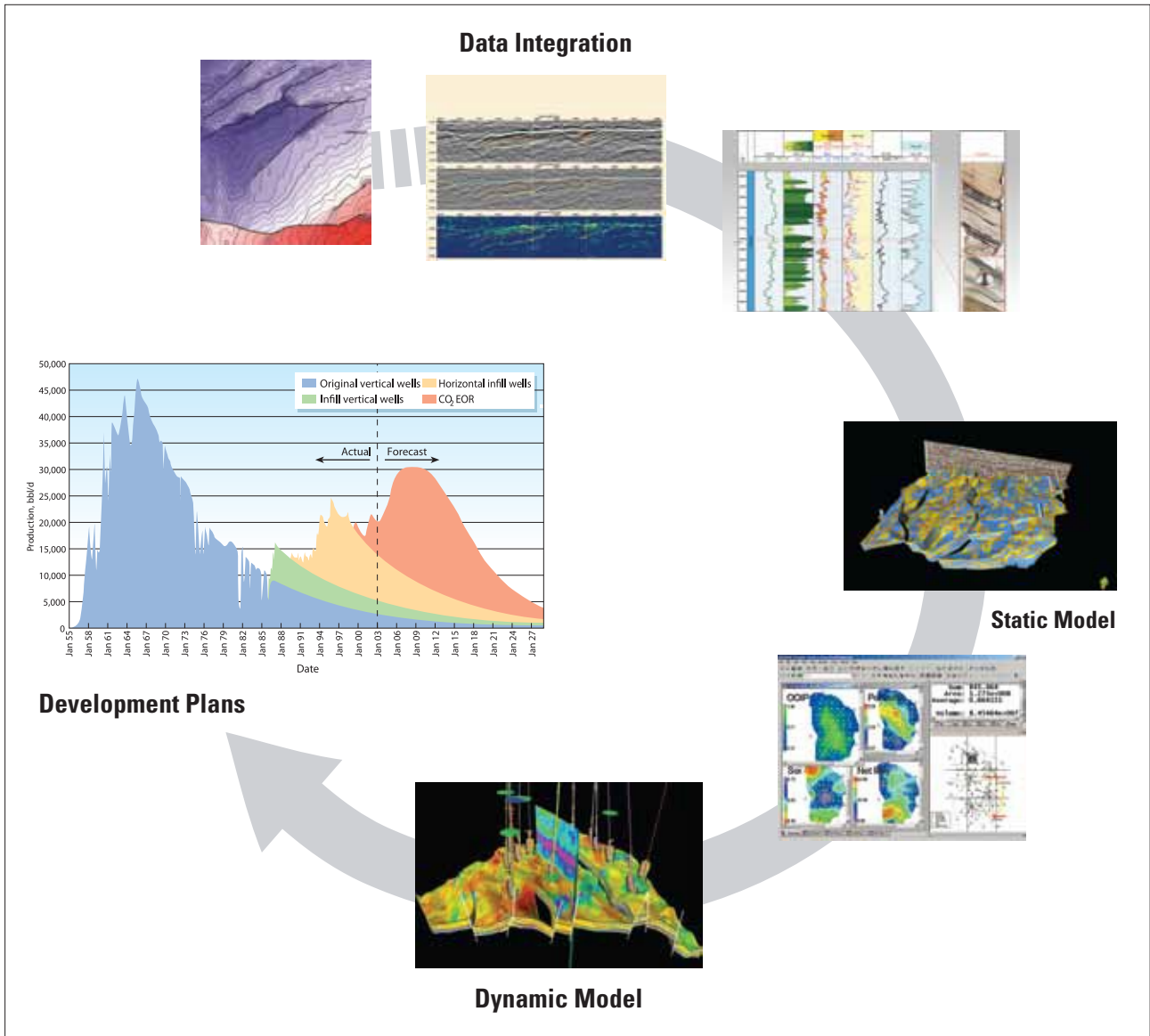
Development Plans

Field development is becoming much more complex and expensive, so getting it right is critical. NExT offers four different FDP programs, each providing the opportunity to learn fundamental approaches in developing and working an FDP. The program incorporates the latest technologies and software to enable customers to design a suitable, long-term, and profitable development strategy.

Geophysics
Geology
Exploration
Technician and Operator
Training
Drilling Engineering
Petrophysics
Surface Facilities
Design and Engineering
Production Engineering
Seismic
Economics and Finance
Geomechanics
Software
Reservoir Engineering
Unconventional Resources
Oil & Gas
Shale
Field Development
Management and Leadership
Deepwater
Planning
Petrotechnical
Unconventional

For a comprehensive portfolio of courses
covering a broad spectrum of disciplines, visit

NExTtraining.net.

NExT
A Schlumberger Company