

2025 NTA Program

NAUTILUS TRAINING ALLIANCE

CAPABILITY DEVELOPMENT
FOR THE ENERGY SECTOR



DIVERSIFYING OUR PORTFOLIO TO SUPPORT THE DRIVE TO NET-ZERO CARBON...

Our portfolio, offered at all experience levels, covers the entire breadth and depth of the energy mix. Our faculty of independent expert instructors come from a wide variety of technical background and regional experience that allows Tetra Tech RPS Energy to bring world class expertise to address your skills and training requirements.

Choose from the wide range of courses, in various subject areas and disciplines, learn best practices, and gain hands-on experience that will improve performance.



Oil and Gas



Carbon Management and Gas Transition



Sustainable Heat - Geothermal



Environmental, Social and Governance (ESG)

Delivered virtually, in the field, in the classroom and by self-paced e-learning



Virtual

Virtual instructor led courses timetabled to provide a globally accessible program.



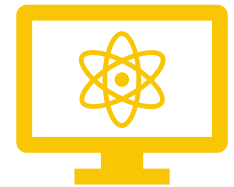
Field

Field courses in the US, UK, Ireland, Spain, Greece, France and South Africa.



Classroom

Courses including core workshops and workstation based courses.



Self-paced e-learning

Flexible, competency-based on-line courses taken at individual learners own pace.



Nautilus Training Alliance

A program of competency-based scheduled training courses for energy professionals focusing on core skills development and current challenges facing the energy industry.

Delivering ‘best in class’ field, classroom and online courses - Led by instructors recognised as world class subject matter experts in their field, including industry leaders, professors and distinguished lecturers.

Modern user environment - Through the Learning Hub, our custom online learning platform, we have developed a modular architecture to enable delivery that meets the expectations of modern learners.

Content steering - Ability to influence technical and non-technical program content.

Commercial flexibility – A range of benefits to enhance membership pre-commitment and deliver greater value.

ENERGY TRANSITION

A graphic for an energy transition presentation. The background is a blurred green field with a bright sun rising in the center. Overlaid on the sun are several circular icons: a solar panel, a wind turbine, a flame, a sun, and a gas pump. A white line art graphic of a building with a curved roof is on the right side of the image.

Helping our oil & gas clients adjust to and thrive in a low-carbon economy

Subject Areas

Carbon Capture & Storage

ESG, Geothermal & Hydrogen

CARBON CAPTURE & STORAGE

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N668a25V: The Economics of CCS Projects	Andy Kirchin	Foundation	Virtual	2 Sessions	01 Oct - 02 Oct	Virtual Classroom
N549a25V: Subsurface Characterization, Screening and Site Selection for Geologic CO2 Storage Sites	Alex Bump, Susan Hovorka	Skilled	Virtual	3 Sessions	21 Oct - 23 Oct	Virtual Classroom
N592a25V: Well Engineering for CO2 Storage Applications	Jonathan Bellarby	Skilled	Virtual	5 Sessions	03 Nov - 07 Nov	Virtual Classroom
N565a25V: Carbon Capture and Storage for Geoscientists and Engineers	Richard Worden	Foundation	Virtual	5 Sessions	17 Nov - 21 Nov	Virtual Classroom
N553a25V: Monitoring Geologic CO2 Storage Sites	Katherine Romanak, Susan Hovorka	Foundation	Virtual	3 Sessions	02 Dec - 04 Dec	Virtual Classroom
N548a25V: Reservoir Modelling for Storage	Tim Wynn, Mark Bentley	Foundation	Virtual	5 Sessions	08 Dec - 12 Dec	Virtual Classroom

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC003 Fundamentals of Carbon Capture and Storage (CCS)	Foundation	5 hours
EC004 Geological Storage of CO2	Foundation	5 hours
EC005 Behaviour of CO2 in Reservoirs	Foundation	6 hours
EC006 Monitoring CO2 Storage	Foundation	4 hours
EP001 The Geoscience of CO2 Storage** - EC003, EC004, EC005 & EC006	Foundation	20 hours
EC007 Petrophysics for CCS	Skilled	7 hours
EC031 Geomechanics for CCS Projects	Skilled	6 hours

** Denotes self-paced e-learning bundle

ESG, GEOTHERMAL & HYDROGEN

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N580a25V: Exploration and Development of Deep Aquifer Geothermal for Direct Heat Use	Mark Ireland	Foundation	Virtual	4 Sessions	16 Jun - 19 Jun	Virtual Classroom
N667a25V: An Introduction to Natural Hydrogen Exploration	Jürgen Grötsch	Awareness	Virtual	2 Sessions	18 Nov - 19 Nov	Virtual Classroom
N663a25V: Introduction to Green Hydrogen	Sandy Petrie	Awareness	Virtual	2 Sessions	TBC	Virtual Classroom

*Session Duration – 3-4 hrs



OIL AND GAS



Detailed and practical training across the asset life cycle from exploration, appraisal, development through to production

Subject Areas

[Basin Analysis](#)

[Structure & Tectonics](#)

[Stratigraphy & Sedimentology](#)

[Geophysics & Seismic Interpretation](#)

[Petrophysics](#)

[Reservoir Development](#)

[Unconventional Resources](#)

[Reservoir & Production Engineering](#)

[Data Analytics, Economics & Risk Analysis](#)



BASIN ANALYSIS

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N343a25C: Depositional Evolution of the GOM Sedimentary Basin	John Snedden	Skilled	Classroom	3 Days	10 Jun - 12 Jun	Houston, USA
N522a25V: Integrated Charge Access Evaluation: The Key to Successful Exploration	Leon Dzou, Mark Thompson	Skilled	Virtual	5 Sessions	01 Dec - 05 Dec	Virtual Classroom

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC022 Basin Analysis	Foundation	7 hours
EC020 Petroleum Generation and Migration	Foundation	5 hours
EC021 Play Fairway Analysis	Foundation	6 hours
EP005 Basin, Play Analysis, Petroleum Generation and Migration** - EC022, EC020 & EC021	Foundation	18 hours

** Denotes self-paced e-learning bundle



STRUCTURE & TECTONICS

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N379a25F: Application of Geomechanics to Reservoir Characterization, Management and Hydraulic Stimulation (Wyoming, USA)	Peter Hennings, Jon Olson	Skilled	Field	5 Days	25 Aug - 29 Aug	Wyoming, USA
N074a25F: Geological and Seismic Interpretation of Thrust Structures for Exploration and Reservoir Characterization (Montana, USA)	Peter Hennings	Skilled	Field	5 Days	08 Sep - 12 Sep	Montana, USA
N134a25F: Carbonate and Shale Faulting and Fracturing Field Seminar (Texas, USA)	David Ferrill, Adam Cawood	Skilled	Field	5 Days	22 Sep - 26 Sep	Texas, USA
N575a25F: From Sub-Seismic Faults to Rift Basins: Exploration, Appraisal, and Production Insights (Gulf of Corinth, Greece)	Douglas Paton	Skilled	Field	5 Days	29 Sep - 03 Oct	Gulf of Corinth, Greece
N657a25C: Seismic Structural Interpretation Techniques	Douglas Paton	Foundation	Classroom	5 Days	03 Nov - 07 Nov	Stavanger, Norway
N114a25F: Extensional Tectonics and Normal Faulting (Nevada and California, USA)	David Ferrill, Adam Cawood	Skilled	Field	5 Days	10 Nov - 14 Nov	Nevada and California, USA
N477a25V: A Systematic Approach to Defining and Evaluating Stratigraphic and Subtle Combination Traps	Mark Thompson, Mike Mayall	Skilled	Virtual	8 Sessions	10 Nov - 20 Nov	Virtual Classroom
N662a25F: Salt Tectonics and Halokinetic Sequences Concepts in the Onshore Lusitanian Basin (Portugal)	Pedro Barreto	Skilled	Field	4 Days	October - TBC	Lusitanian Basin, Portugal

*Session Duration – 3-4 hrs

STRATIGRAPHY & SEDIMENTOLOGY

Instructor Led Training

New
Course

Courses	Instructors	Level	Mode	Duration	Dates	Location
N681a25F: Characteristics of Alluvial, Coastal, and Shallow Marine Reservoir Successions for Reservoir Management, Gas Storage, and CO2 Sequestration (Utah, USA)	Christopher Fielding	Skilled	Field	5 Days	02 Jun - 06 Jun	Utah, USA
N073a25V: Integration of Sedimentology, Petrophysics and Seismic Interpretation for Exploration and Production of Carbonate Systems	Gregor Eberli	Skilled	Virtual	8 Sessions	02 Jun - 12 Jun	Virtual Classroom
N009a25F: Sedimentology, Stratigraphy and Reservoir Geology of Deepwater Clastic Systems (County Clare, Ireland)	Andy Pulham	Skilled	Field	5 Days	24 Jun - 28 Jun	County Clare, Ireland
N011a25F: High Resolution Sequence Stratigraphy: Reservoir Applications (Utah, USA)	Lee Krystinik, Andy Pulham	Skilled	Field	5 Days	15 Sep - 19 Sep	Utah, USA
N059a25F: Carbonate Systems and Facies Architecture: Exploration and Reservoir Implications (Mallorca & Menorca, Spain)	Juan Ignacio Baceta, Guillem Mateu	Skilled	Field	5 Days	22 Sep - 26 Sep	Mallorca and Menorca, Spain
N483a25V: Deepwater Stratigraphy and Facies Analysis from Seismic, Well Data and Outcrops	Mike Mayall	Skilled	Virtual	6 Sessions	07 Oct - 16 Oct	Virtual Classroom
N091a25F: Carbonate Reservoir Architecture and Applied Carbonate Sequence Stratigraphy (West Texas and SE New Mexico, USA)	Art Saller	Skilled	Field	5 Days	20 Oct - 24 Oct	West Texas and SE New Mexico, USA
N292a25F: Deepwater Depositional System Stratigraphy for Exploration and Development (Arkansas, USA)	Lesli Wood, Doug Hanson, Mac McGilvery	Skilled	Field	5 Days	27 Oct - 31 Oct	Arkansas, USA
N670a25F: Fluvial and Coastal Clastic Depositional Environments (Texas Gulf Coast, USA)	Anton Wroblewski	Foundation	Field	4 Days	03 Nov - 06 Nov	Texas Gulf Coast, USA

*Session Duration – 3-4 hrs

GEOPHYSICS & SEISMIC INTERPRETATION

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N470a25V: AVO Reflectivity, Pre-stack Inversion and Quantitative Seismic Interpretation	Bill Goodway	Skilled	Virtual	6 Sessions	13 May - 22 May	Virtual Classroom
N673a25C: Applied Seismic Interpretation	Rachel Newrick	Skilled	Classroom	5 Days	06 Oct - 10 Oct	Houston, USA
N659a25V: The Interpreter's Guide to Depth Imaging	Scott MacKay	Skilled	Virtual	4 Sessions	13 Oct - 16 Oct	Virtual Classroom
N049a25V: Seismic Attributes for Exploration and Reservoir Characterisation	John Castagna	Skilled	Virtual	10 Sessions	13 Oct - 24 Oct	Virtual Classroom
N505a25V: Applications of Time-Lapse Seismic Data to Reservoir Management and Carbon Storage	David Johnston	Skilled	Virtual	4 Sessions	20 Oct - 23 Oct	Virtual Classroom
N004a25V: The Essentials of Rock Physics and Seismic Amplitude Interpretation	Eleanor Oldham	Foundation	Virtual	8 Sessions	03 Nov - 13 Nov	Virtual Classroom

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC008 Seismic Methods	Foundation	5 hours

PETROPHYSICS

Instructor Led Training

New
Course

Courses	Instructors	Level	Mode	Duration	Dates	Location
N083a25C: Petrophysics and Formation Evaluation: Principles and Practice	David Eickhoff	Foundation	Classroom	3 Days	03 Jun - 05 Jun	Houston, USA
N671a25V: Core Analysis for Petroleum and CCS Applications	Adam Moss	Foundation	Virtual	5 Sessions	23 Jun - 27 Jun	Virtual Classroom
N330a25V: Image and Dip Log Analysis and Interpretation	Nicholas Harvey	Skilled	Virtual	5 Sessions	15 Sep - 19 Sep	Virtual Classroom
N528a25C: Petrophysics of Tight and Unconventional Oil Reservoirs	Dick Merkel	Skilled	Classroom	3 Days	04 Nov - 06 Nov	Houston, USA
N003a25C: Geological Interpretation of Well Logs	Jenny Garnham	Foundation	Classroom	5 Days	10 Nov - 14 Nov	Stavanger, Norway
N083b25C: Petrophysics and Formation Evaluation: Principles and Practice	Mike Lovell	Foundation	Classroom	3 Days	18 Nov - 20 Nov	Stavanger, Norway

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC013 Foundation Petrophysics	Foundation	6 hours
EC014 Petrophysical Tools	Foundation	12 hours
EC015 Petrophysical Tools for Geoscience	Foundation	14 hours
EC016 Petrophysical Tools for Reservoir Engineering	Foundation	14 hours
EC018 Formation Evaluation	Foundation	3 hours
EP002 Petrophysics and Formation Evaluation for Geoscientists** - EC013, EC014, EC015 & EC018	Foundation	20 hours
EP003 Petrophysics and Formation Evaluation for Reservoir* Engineers** - EC013, EC014, EC016 & EC018	Foundation	20 hours

** Denotes self-paced e-learning bundle

RESERVOIR DEVELOPMENT

Instructor Led Training

	Courses	Instructors	Level	Mode	Duration	Dates	Location
	N058a25V: Reservoir Characterization and Geostatistical Modeling; A Data Analytical Approach to Practical Geospatial Reservoir Mapping	Jeffrey Yarus	Skilled	Virtual	8 Sessions	16 Jun - 26 Jun	Virtual Classroom
	N444a25C: Development Planning For Mature Fields	Jerry Hadwin	Skilled	Classroom	3 Days	23 Jun - 25 Jun	Stavanger, Norway
New Course	N923a25F: Modelling of Reservoir Structure & Fractures - Applications to CCS, Gas Storage, Geothermal, Oil & Gas (Somerset, UK)	Tim Wynn, Ed Stephens	Skilled	Field	5 Days	08 Sep - 12 Sep	Somerset, UK
	N033a25F: Characterisation, Modelling, Simulation and Development Planning in Deepwater Clastic Reservoirs (Tabernas, Spain)	Mark Bentley, Ed Stephens	Skilled	Field	5 Days	22 Sep - 26 Sep	Tabernas, Spain
New Course	N675a25V: Sandstone Diagenesis and Reservoir Quality for Exploration, Appraisal, Field Development, and CCS Projects	Richard Worden	Skilled	Virtual	5 Sessions	22 Sep - 26 Sep	Virtual Classroom
	N576a25F: Reservoir Modelling and the Application of Outcrop Analogues (Utah, USA)	John Howell	Skilled	Field	5 Days	29 Sep - 03 Oct	Utah, USA
New Course	N676a25V: Carbonate Reservoir Quality for Hydrocarbon and CCS applications	Arve Lonoy, Conxita Taberner	Skilled	Virtual	5 Sessions	17 Nov - 21 Nov	Virtual Classroom
	N427a25C: Reservoir Model Design	Mark Bentley	Skilled	Classroom	4 Days	24 Nov - 27 Nov	Stavanger, Norway
	N305a25C: Core Facies Analysis for Resource Plays	Gus Gustason	Foundation	Classroom	5 Days	01 Dec - 05 Dec	USGS Core Research Center - Lakewood, CO
New Course	N680a25V: Multi-Disciplinary Skills for Sustainable Field Development Planning for Hydrocarbon and CCS Projects	Pete Smith	Skilled	Virtual	5 Sessions	01 Dec - 05 Dec	Virtual Classroom

*Session Duration – 3-4 hrs



UNCONVENTIONAL RESOURCES

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N313a25V: Evaluating Shale and Tight Oil and Gas Reservoirs	Creties Jenkins	Foundation	Virtual	8 Sessions	24 Feb - 27 Feb	Virtual Classroom
N463a25F: Geological Drivers for Tight-Oil and Unconventional Plays in the Powder River Basin and Applications to Other Basins (Wyoming, USA)	Randi Martinsen, Lee Krystinik	Foundation	Field	5 Days	23 Jun - 27 Jun	Wyoming, USA
N364a25F: Fracture Architecture, Sedimentology and Diagenesis of Organic-rich Mudstones of Ancient Upwelling Zones with Application to Naturally Fractured Reservoirs (California, USA)	Richard Behl, Jon R. Schwalbach	Skilled	Field	5 Days	12 Jul - 16 Jul	California, USA
N274a25C: Unconventional Resource Engineering for Geoscientists	Yucel Akkutlu	Foundation	Classroom	3 Days	22 Jul - 24 Jul	Midland, USA
N406a25C: Unconventional Resource Assessment and Valuation	Creties Jenkins, Mark McLane	Skilled	Classroom	4 Days	18 Aug - 21 Aug	Midland, USA
N674a25F: Northern Appalachian Basin: Tectonics, Faults, and Fractures, and Their Effects on the Utica, Marcellus, and Genesee Black Shales (New York and Pennsylvania, USA)	Robert Jacobi, Gus Gustason	Skilled	Field	5 Days	22 Sep - 26 Sep	New York and Pennsylvania, USA
N471a25C: The Petroleum System in Unconventional Exploration & Production: Geology, Geochemistry and Basin Modeling	Andy Pepper	Foundation	Classroom	4 Days	27 Oct - 30 Oct	Houston, USA
N437a25C: Geomechanics for Unconventional and Tight Reservoirs	Neal Nagel	Skilled	Classroom	4 Days	10 Nov - 13 Nov	Midland, USA

*Session Duration – 3-4 hrs

New Course





RESERVOIR & PRODUCTION ENGINEERING

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N997a25C: Applied Reservoir Engineering	Jerry Hadwin	Skilled	Classroom	5 Days	05 May - 09 May	Stavanger, Norway
N940a25C: Modern Completion and Production Enhancement Techniques	Jonathan Bellarby	Skilled	Classroom	5 Days	16 Jun - 20 Jun	Stavanger, Norway
N006a25V: An Introduction to Reservoir Engineering for Geoscientists	Mark Cook	Foundation	Virtual	5 Sessions	06 Oct - 10 Oct	Virtual Classroom
N013a25V: Overpressure in Petroleum Systems and Geopressure Prediction	Jakob Heller, Jorge Fernandez, Rashad Gulmammadov	Foundation	Virtual	8 Sessions	13 Oct - 23 Oct	Virtual Classroom
N679a25C: GeoPressure Essentials: Managing Subsurface Pressures for Oil & Gas and Carbon Storage	Stephen O'Connor	Foundation	Classroom	4 Days	27 Oct - 30 Oct	Stavanger, Norway
N996a25V: Gas Reservoir Engineering and Management	Pete Smith	Skilled	Virtual	8 Sessions	03 Nov - 13 Nov	Virtual Classroom

New Course
New Course

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC025 Well Planning and Drilling Operations	Foundation	6 hours
EC026 Reservoir Engineering and Well Optimisation	Foundation	3 hours
EC027 Well Completion Technology	Foundation	4 hours
EC028 Well Production Operations	Foundation	3 hours
EP004 Essentials of Reservoir and Production Engineering** - EC025, EC026, EC027, EC028	Foundation	14 hours

** Denotes self-paced e-learning bundle





DATA ANALYTICS, ECONOMICS & RISK ANALYSIS

Instructor Led Training

Courses	Instructors	Level	Mode	Duration	Dates	Location
N479a25V: Applied Statistical Modeling and Big Data Analytics	Srikanta Mishra	Skilled	Virtual	5 Sessions	05 May - 09 May	Virtual Classroom
N014a25V: Petroleum Economics and Risk Analysis	Mark Cook	Foundation	Virtual	5 Sessions	12 May - 16 May	Virtual Classroom
N510a25V: Mitigating Bias, Blindness and Illusions in E&P Decision Making	Creties Jenkins	Foundation	Virtual	4 Sessions	16 Jun - 19 Jun	Virtual Classroom

*Session Duration – 3-4 hrs

Self-paced e-learning

Courses	Level	Duration
EC001 Geostatistics for Reservoir Modelling	Foundation	6 hours

** Denotes self-paced e-learning bundle



COURSE ACCESS

Scheduled courses

Tetra Tech RPS Energy delivers field, classroom and online courses focusing on core skills development and current challenges facing the E&P industry. Courses are delivered by instructors recognised as world class subject matter experts in their field, including industry leaders, professors and distinguished lecturers.

Our scheduled courses can be accessed through your corporate Nautilus Training Alliance (NTA) Membership or courses can be booked on-demand as required online by credit card or invoice.

Self-paced e-learning

Offered independently or as part of a blended learning program, our bespoke e-learning solutions immerse learners in a rich variety of content and interactive media to provide a personalised learning experience. By providing access to the our e-learning catalogue or producing custom content, we help organisations leverage technology to engage their learners in a dynamic and exciting digital learning environment.

With each new course, you will find an overview of what the course covers and what's associated with the specific course elements in the introductory module page. Specific competencies are addressed through videos, presentation materials, interactive quizzes, 3D models, text and voice-overs. Each module is designed for flexible learning and allows for variable periods of interaction with content to suit individual needs.

Courses can be accessed either via NTA Membership, a corporate license or can be booked on-demand as required online by credit card or invoice.

Inhouse courses

The same best in class virtual, field and classroom courses focusing on core skills development and current challenges but delivered inhouse for groups typically of 10 to 20 participants. Courses delivered by instructors recognised as world class subject matter experts.

Designed to meet technical requirements – Learning events are tailored to address learning outcomes most relevant to the team in the workplace. Can include variations across all subject areas and specifics to address cross-disciplinary challenges. Established courses can be delivered off-the-shelf or customised to meet specific technical focus and level.

Flexible locations – Either in your office, or virtually to provide training for participants in multiple locations.

Flexible schedules – Delivered in continuous sessions, or distributed over a longer period of time to suit operational requirements.

Efficient - Team focused training is a cost effective means of learning and development for technical staff with shared technical challenges.

Book a course or make an inhouse course enquiry:
training.rpsgroup.com/contact-us/



Certificates for Professional Development

Certificates for Professional Development Hours (PDH) and/or Continuing Education Units (CEU) are issued for application toward your professional development.

We are accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU. We comply with the ANSI/IACET Standard, which is recognised internationally as a standard of excellence in instructional practices.

[Visit the IACET website](#)

All Geoscience and Professional Skills Development courses on the Nautilus Training Alliance have been accredited by the Geological Society, London and approved for Continuing Professional Development for geoscientists who are working towards or have received Chartered Geologist status.

[Visit the Geological Society of London's website](#)



Our goal is to collaborate with our customers to develop the competencies and capability of their workforce through integrated learning that supports their roles and promotes individual development driving organisational excellence. Our expertise brings flexible and scalable solutions from a diverse energy portfolio in the design, development of technical content and knowledge-based programmes delivered by expert instructors. Our technical and learning expertise help organisations develop the competencies, skills and knowledge they need to fulfil their collective potential.

CONTACT

W: training.rpsgroup.com

E: rps.energytraininginfo@tetrattech.com