TRAINING HERE AT THE NFPC

THE NFPC IS THE UK’S LEADING CENTRE FOR CETOP COMPETENCE BASED QUALIFICATIONS LEVELS 1, 2, 3

WORLD CLASS PRACTICAL TRAINING FACILITIES

SUPPORTED BY 10 OF THE UK’S TOP SYSTEMS TRAINING ENGINEERS FROM UK INDUSTRY

THE NFPC is an APPROVED TRAINING PROVIDER for:

www.nfpc.co.uk

Reserve your places online or contact Anne Clarke
(0)1909 504539 /aclarke@nfpc.co.uk

filed 05/09/2023

National Fluid Power Centre Ltd
Turner Road, Worksop
Notts, S81 7AE
Message from John R Savage NFPC - Managing Director

Over the last 24 years the NFPC has established itself as a World Leader in the provision of specialised short Courses involving HYDRAULICS, ELECTRO-HYDRAULICS, PNEUMATICS, APPLIED ELECTRONICS & CONTROLS. Add to this we are a Leading Centre in the provision of CETOP Competence Based Qualifications at levels 1,2 and 3. We have possibly the best practical training facilities in Europe, supported by an outstanding team of Training and Systems Training Engineers and Business Support Staff. We are a flexible and responsive organisation, continuously investing in our training facilities and keeping abreast of the latest technology, thereby ensuring that we meet your needs and expectations at all times.

PLEASE READ THIS SHEET

NFPC COURSES predominately aimed at those Staff involved in the Maintenance and Management of Integrated Fluid Power Systems. Our Courses have a high practical content. We believe that “hands-on-training” reinforces the levels of understanding and represents a vital part of your development. Each of our Courses are shown in detail on our website - www.nfpc.co.uk

HAVING ATTENDED COURSES HERE AT THE NFPC- Through the effectiveness of our Courses we AIM to improve your “Knowledge”, Practical Skills, “Role Competence”, “Safe Working Procedures”, ”Communication Skills” and a general improvement in your work based performance as required by your Employer.

HOW DO I DECIDE ON THE BEST COURSE TO MEET MY NEEDS?

This Course planner contains a list of our range of Courses involving a range of LEVELS:

• Introductory Courses- These are ideal for non-technical staff or technical staff with very little subject knowledge

• Stage 1 Courses- This range of Courses are design to provide a foundation of knowledge and skills for Maintenance and Technical Staff. These courses represent to start of this vital journey to become more effective in your place of work. **These courses provide a pre-requisite route to CETOP Level 1 Competence Based Qualifications**

• Stage 2 Courses- This range of Courses, follow on from Stage 1 adding further knowledge and practical skills plus that of improved levels of performance relating to systems maintenance, fault prevention, fault-finding and procedural thinking. **A number of these courses provide a prerequisite route to CETOP Level 2 Competence Based Qualifications**

• Stage 3 Courses- These are Advanced Knowledge Based Courses involving Industrial and Mobile Hydraulic Systems **These Courses provide a prerequisite route to CETOP Level 3 Competence Based Qualifications**

TO ASSIST YOU IN SELECTING THE RIGHT COURSE.

We have developed a RANGE OF ONLINE SELF ASSESSMENTS. We advise you to use these to check your current knowledge levels before booking your place on any NFPC Course. [https://www.nfpc.co.uk/online-self-assessment/](https://www.nfpc.co.uk/online-self-assessment/)

If you have already attended Training Courses here at the NFPC but some 3 years have passed, you may need to consider REFRESHER TRAINING (see page 9)

HOW TO USE THIS COURSE PLANNER - Standard Course Progressions

• Page 3 shows our Standard Range of Courses available. Note some are on request (not scheduled) - Refer then to pages 6 to 9 identify all course dates and costs

HOW TO USE THIS COURSE PLANNER - CETOP QUALIFICATIONS

• Page 4 shows the recommended Progression Routes for CETOP Levels 1 & 2 Qualifications

• Page 5 shows the recommended Progression Routes for CETOP Levels 3 Qualifications
**Important Message**

Due to the increased levels of control and automation and the application of more and more electrical and electronic systems and devices used in conjunction with Fluid Power Systems, the NFPC has introduced a series of NEW ELECTRO-HYDRAULIC Courses. Namely: **INTRODUCTION TO ELECTRO-HYDRAULICS (2 Days)**

*STAGE 1 ELECTRO-HYDRAULICS (3 Days)*

These are highly recommended **BUT NOT COMPULSORY**. Visit our Website for more details.

We also offer: **INTRODUCTION TO HYDRAULICS (2 Days)** and **INTRODUCTION TO PNEUMATICS (2 Days)** we suggest you use our ONLINE SELF ASSESSMENT to identify your current knowledge level.

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**Hydraulics**

- **Stage 1**
  - **Hydraulics**
    - 3 days
  - **Electro-Hydraulics**
    - 3 days

- **Stage 2**
  - **Hose Assembly Technology**
    - 1 day - £350 Ex VAT
  - **Pumps & Controls**
    - 3 day - £1090 Ex VAT
  - **Safe Management of Hydraulic Systems**
    - 1 day - £350 Ex VAT
  - **Contamination Management/Assessment**
    - 2x1 days £700 Ex VAT
  - **Winch Hydraulic Systems**
    - 3 days - £1090 Ex VAT
  - **Hydraulic Troubleshooting**
    - 2 days - £750 Ex VAT
  - **Proportional Hydraulics**
    - 3 days - £1090 Ex VAT
  - **Accumulator Competence**
    - 2 days - £735 Ex VAT
  - **Introduction to Proportional Hydraulics**
    - 1 day - £350 Ex VAT

- **Stage 3**
  - **INDUSTRIAL Advanced Hydraulics**
    - 4 days
  - **MOBILE Advanced Hydraulics**
    - 5 days

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**Pneumatics**

- **Stage 1**
  - **Electro-Pneumatics**
    - 3 days

- **Stage 2**
  - **MOBILE**
    - 4 days

- **Stage 3**
  - **INDUSTRIAL Advanced Hydraulics**
    - 4 days

- **Basic Industrial System Design**
  - **On-Line webinars (6 Half Day Sessions)**

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*This Symbol denotes – HIGHLY RECOMMENDED, and should be considered.* Use the NFPC Online Self-Assessment to check your current knowledge levels and to see if you require this course.

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**www.nfpc.co.uk**

National Fluid Power Centre Ltd, Turner Rd Worksop, Notts, S81 7AE
Recommended Progression Route to obtain CETOP COMPETENCE BASED QUALIFICATIONS

The National Fluid Power Centre has over 30 years of experience in delivering and assessing CETOP Competence Based Qualifications and is the only Centre in the UK offering all levels.

LEVEL 1 QUALIFICATIONS

- CETOP FPE1 (Fluid Power Applied Electrical/ Electronic Control) 3 days
  - Stage 1 Electro-Hydraulics 3 days
  - Stage 1 Hydraulics 3 days

LEVEL 2 QUALIFICATIONS

- CETOP H1 (Industrial) 4 days
  - Stage 1 Electro-Hydraulics 3 days
  - Stage 2 INDUSTRIAL Hydraulics 4 days

- CETOP P1 (Mobile) 5 days
  - Stage 1 Electro-Pneumatics 3 days
  - Introduction to Pneumatics 2 days

- CETOP MH2 (Mobile) 5 days
  - Stage 1 Electro-Hydraulics 3 days
  - Stage 2 MOBILE Hydraulics 4 days

This Symbol denotes – HIGHLY RECOMMENDED, and should be considered. Use the NFPC Online Self-Assessment to check your current knowledge levels and to see if you require this course.

https://www.nfpc.co.uk/online-self-assessment/
The National Fluid Power Centre has over 30 years of experience in delivering and assessing CETOP Competence Based Qualifications and is the only Centre in the UK offering all levels.

This Symbol denotes – **HIGHLY RECOMMENDED**, and should be considered. Use the NFPC Online Self-Assessment to check your current knowledge levels and to see if you require this course.

This is a 1 Year programme. Induction will take place each year in late July. To obtain this qualification requires a high commitment to personal study. You will be expected to complete 20 written assignments with an EXCELLENT/GOOD mark, complete a written examination with a pass mark of 70% and complete a series of one to one practical task assessments over a period of 4 to 5 days here at the NFPC.

DENOTES HIGHLY RECOMMENDED

VISIT THE CETOP WEB SITE AND CHECK THE EDUCATIONAL RECOMMENDATIONS https://www.cetop.org/education/
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Planned Dates</th>
<th>Cost per person Exc VAT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introductory Level &amp; Stage 1 (Hydraulics/Electro-Hydraulics)</strong></td>
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</table>
| Introduction to Hydraulics (BASIC)                | 2 Day Course   | • 08-09 Jan  
• 22-23 Jan  
• 05-06 Feb  
• 19-20 Feb  
• 04-05 Mar  
• 25-26 Mar | £685.00          |
| Introduction to Electro-Hydraulics (Basic)        | 2 Day Course   | • 15-16 Jan  
• 12-13 Feb  
• 18-19 Mar  
• 02-03 Apr  
• 13-14 May  
• 10-11 June | £685.00          |
| Stage 1 Hydraulics                                | 3 Day Course   | • 08-10 Jan  
• 15-17 Jan  
• 22-24 Jan  
• 05-07 Feb  
• 12-14 Feb  
• 26-28 Feb  
• 04-06 Mar  
• 11-13 Mar  
• 18-20 Mar  
• 25-27 Mar | £1090.00         |
| Stage 1 Electro-Hydraulics (Maximum Candidates = 4) | 3 Day Course   | • 17-19 Jan  
• 14-16 Feb  
• 20-22 Mar  
• 15-17 May  
• 24-26 June | £1090.00         |
| **CETOP LEVEL 1 Competence Based Qualifications**|               |                                           |                         |
| CETOP H1 Hydraulics                               | 2 Day Course   | • 11-12 Jan  
• 18-19 Jan  
• 25-26 Jan  
• 08-09 Feb  
• 15-16 Feb  
• 29 Feb- 01 Mar  
• 07-08 Mar  
• 14-15 Mar  
• 21-22 Mar | £685.00          |
| NEW CETOP FPE1 Applied Elec/Elec                   | 3 Day Course   | • 22-24 Jan  
• 19-21 Feb  
• 25-27 Mar  
• 20-22 May  
• 01-03 July | £1090.00         |
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<tr>
<th>Course Title</th>
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<tr>
<td><strong>MAINTENANCE &amp; MANAGEMENT (Stage 2 Courses)</strong></td>
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<tr>
<td>Stage 2 INDUSTRIAL HYDRAULICS (Maximum 12)</td>
<td>4 Day Course</td>
<td>• 22-25 Jan</td>
<td>£1300.00</td>
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<td></td>
<td></td>
<td>• 19-22 Feb</td>
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<td>• 18-21 Mar</td>
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<td>• 22-25 Apr</td>
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<td>• 20-23 May</td>
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<td>• 10-13 June</td>
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<td>• 08-11 July</td>
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<tr>
<td>Stage 2 MOBILE HYDRAULICS</td>
<td>4 Day Course</td>
<td>• 12-15 Feb</td>
<td>£1300.00</td>
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<td></td>
<td></td>
<td>• 25-28 Mar</td>
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<td>• 15-18 Apr</td>
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<td>• 28-31 May</td>
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<tr>
<td>Stage 2 OFFSHORE HYDRAULICS</td>
<td>4 Day Course</td>
<td>ON REQUEST (Minimum of 4 Candidates)</td>
<td>£1300.00</td>
</tr>
<tr>
<td>CETOP IH2 INDUSTRIAL Hydraulics Competence Based Qualification</td>
<td>4 Day Course</td>
<td>This will involve: Written Exam-60% Pass Mark And one to one practical task assessment</td>
<td>£1400.00</td>
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<tr>
<td>CETOP MH2 MOBILE Hydraulics Competence Based Qualification</td>
<td>5 Day Course</td>
<td>This will involve: Written Exam-60% Pass Mark And one to one practical task assessment</td>
<td>£1470.00</td>
</tr>
<tr>
<td>Stage 3 INDUSTRIAL (Advanced Hydraulics)</td>
<td>4 Day Course</td>
<td>ON REQUEST</td>
<td>£1200.00</td>
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<tr>
<td>Stage 3 MOBILE (Advanced Hydraulics)</td>
<td>5 Day Course</td>
<td>ON REQUEST</td>
<td>£1470.00</td>
</tr>
<tr>
<td>CETOP LEVEL 3 (IH3) INDUSTRIAL HYDRAULICS</td>
<td>1 YEAR</td>
<td>1st Aug 24 to 31st July 25</td>
<td>£2100.00</td>
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<td>Induction July 2024</td>
<td>RESERVE YOUR PLACE SEE PREREQUISITES</td>
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<tr>
<td>CETOP LEVEL 3 (MH3) MOBILE HYDRAULICS</td>
<td>1 YEAR</td>
<td>1st Aug 24 to 31st July 25</td>
<td>£2100.00</td>
</tr>
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<td>RESERVE YOUR PLACE SEE PREREQUISITES</td>
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The above Qualification will involve: 20 Written Assignments, up to 5 days at the NFPC carrying out Practical Task Assessments and a final written examination with a pass mark of 70%
## HYDRAULIC COURSES - Starting January 2024

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Duration</th>
<th>Planned Dates</th>
<th>Cost per person Excl VAT</th>
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</thead>
<tbody>
<tr>
<td><strong>STANDARD HYDRAULIC RELATED COURSES</strong></td>
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</tbody>
</table>
| Stage 2 PUMPS & CONTROLS              | 3 Day Course      | • 15-17 Jan
• 11-13 Mar
• 07-09 May
• 22-24 July                           | £1090.00            |
| Stage 2 ACCUMULATOR COMPETENCE        | 2 Day Course      | • 29-30 Jan
• 19-20 Feb
• 04-05 Mar
• 02-03 Apr
• 28-29 May
• 17-18 June
• 22-23 July                           | £735.00             |
| Hydraulic Hose Assembly               | 1 Day Course      | • 08 Feb
• 14 Mar                                    | £350.00           |
| Stage 2 HYDRAULIC TROUBLESHOOTING     | 2 Day Course      | ON REQUEST                                                               | £750.00          |
| BASIC HYDRAULIC (Industrial) SYSTEM DESIGN | 6 Sessions Friday Mornings (3 Hour Sessions) | Date to be confirmed | £995.00          |
| Apprentice Summer School              | 8 days            | Week 1 (15-19 July)
Week 2 (22-26 July)                          | £1775.00          |
| • Introduction to Hydraulics (2 days)  |                   |                                                                               |                           |
| • Introduction to Electro Hyd (1 day)  |                   |                                                                               |                           |
| • Stage 1 Hydraulics (3 days)          |                   |                                                                               |                           |
| • CETOP H1 Hydraulics (2 days)         |                   |                                                                               |                           |
| **PNEUMATIC RELATED COURSES**         |                   |                                                                               |                           |
| Introduction to Pneumatics            | 2 Day Course      | ON REQUEST                                                               | £685.00          |
| Stage 1 Electro-Pneumatics            | 3 Day Course      | • 05-07 Feb
• 22-24 Apr
• 13-15 May
• 10-12 June                                | £1090.00          |
| Follow on course if requires is CETOP P1 dates below | | |                           |
| CETOP P1 PNEUMATICS Level 1 Qualification | 2 Day Course   | • 08-09 Feb
• 25-26 Apr
• 16-17 May
• 13-14 June                                | £685.00          |
If 3 years have passed since you last attended a specific course here at the NFPC, we recommend you to consider REFRESHER TRAINING.

We will offer you Refresher Training at a reduced rate. To qualify for this you must send us a copy of your original course certificate signed by the NFPC Director and dated to Anne Clarke NFPC Booking & Customer Liaison Officer (aclarke@nfpc.co.uk). Tel No. 01909 504539. We will then look at available course places and fit you in accordingly.

Refresher Courses- Reduced Prices

3 Day Courses

Stage 1- Hydraulics
Stage 1 – Electro-Pneumatics
Stage 1- Electro-Hydraulics

Full Cost per person = £1090.00 Exc VAT
REFRESHER Cost per person = £800.00 Exc VAT

4 Day Courses

Stage 2- Industrial Hydraulics
Stage 2- Mobile Hydraulics
Stage 2- Offshore Hydraulics

Full Cost per person = £1300.00 Exc VAT
REFRESHER COST per person = £980.00 Exc VAT

STAGE 2 – REFRESHER OPTIONS-
The above 4 day courses consist of 2 Days Knowledge Based and 2 Days Practical Training. If you only wish to take up 2 days of refresher training (you choose and let us know) Knowledge Based or Practical.

The Cost for a 2 day refresher would be £490.00 per person Exc VAT

To reserve your place on a Refresher Course and check availability, contact Anne Clarke (Bookings and Customer Liaison at the NFPC). Contact details – aclarke@nfpc.co.uk Tel No 01909 504539

Note- Prices may be subject to change.

www.nfpc.co.uk