Hull Design and Fairing Training for Professionals Level 1 & 2

Ships – Yachts – Workboats – Multihulls

Rhino enables accurate, flexible and fair vessel hull design with the “Rapid Hull Modeling Methodology”. This method is developed by RhinoCentre in co-operation with other professionals in the marine industry. After years of offering training and services to leading companies in the marine industry worldwide, RhinoCentre finally developed the unique training modules: Prepare 2d input and Hull Design and Fairing Level 1 and Level 2.

These three modules are now combined in a three day training that unveils the mystery of Class-A fairing to any designer, naval architect and shipyard. One free extra day enables you to work on your own project under our assistance. You decide which program makes you successful and productive.

<table>
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<tr>
<th>Programs and prices for open training</th>
<th>Price per person (excl. VAT)</th>
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<tbody>
<tr>
<td>1. Hull design and fairing Training Level 1 &amp; 2</td>
<td>Three days</td>
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<tr>
<td>Work on your project</td>
<td>Fourth day</td>
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<tr>
<td>2. Program 1 + Feedback support on your work</td>
<td>8 hours at your request</td>
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<tr>
<td>3. Program 1 + 2 + Project support for your business</td>
<td>16 hours at your request</td>
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Every trainee is asked to send in their specific hull type which will be practiced during the course. By sending it in, we can check the feasibility and assist you to be successful. Send in a 3d model, lines plan, general arrangement plan or some images.

Two extra services are offered for a special price:

1. Feedback support when you want us to help you out with your hull design and fairing after the training. Just send us your files and we take a look, make suggestions and get you rolling again. This is really practical becoming more professional in finding an elegant hull definition and clever strategy.

2. Project support for your business means that you can hire us to set up a hull definition for your type of ship hull whether it is a new design or reverse engineering of an existing hull shape from a lines plan for example.

Small print: 1. Prerequisites for this training: Rhino Level 1 training or six months of working with Rhino.
2. For designing aft bulb hulls and twin skeg hull configurations the T-Splines plugin for Rhino is required. Even then this Rapid Hull Modeling Methodology is required.
3. Support hours have to be spent within six months after the training.

Training Program:

- Prepare 2D input:
  - Prepare 2D AutoCAD drawings to be used as input for 3D Rhino.
  - Use the prepared AutoCAD drawing in a clever and clean way.
  - Using images (PDF, JPG etc.) as a reference for quick and accurate 3d modeling.

- Hull design and fairing Level 1:
  - Setting up a hull definition from scratch based on the Rapid Hull Modeling Methodology.
  - Analyze the hull surface quality, hull surface character and hydrostatics.
  - Fairing techniques that lead to Class-A surfaces.
  - About curvature graph and continuity (G0/G1/G2/G3/G4).
  - Generate a lines-drawing.
  - Examine example hull types to be used as a starting point for future hull design:
    - Several types of merchant vessels.
    - Several types of (mega) yachts.
    - Several types of workboats.

- Hull design and fairing Level 2:
  - Model a 3d hull from an existing 2d lines plan or general arrangement drawing.
  - Finding the best strategy; understanding before making decisions.
  - Put a strategy into practice.
  - Generate dynamic sections, waterlines and buttocks.
  - Create and maintain developability.
  - Advanced analysis.

Winston Pynn
Instructor, Naval Architecture
Marine Institute of Memorial University, Canada
Training details:

- For availability as open training, see our training schedule
- This training is also available in-company on your location. Please contact us for prices and details.
- Maximum of eight trainees
- Prices per person for open training:
  - Program 1: € 1980,- excl. VAT
  - Program 2: € 2540,- excl. VAT
  - Program 3: € 3660,- excl. VAT
- Discount for more trainees from the same company:

<table>
<thead>
<tr>
<th>Trainees</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<tbody>
<tr>
<td>Discount</td>
<td>-</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>20%</td>
<td>25%</td>
<td>30%</td>
<td>35%</td>
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- Register now or mail us for more info at info@rhinocentre.nl
- Training days from 09:00 to 17:00 with a lunch at 12:30.
- Lunch, coffee, tea and fresh drinks are included
- Training facility at RhinoCentre: Google maps
- Address: Westersingel 4, 8913 CK, Leeuwarden, the Netherlands
- RhinoCentre is a "McNeel Authorized Training Center".
- The training includes a splendid training manual.
- Training language is English
- RhinoCentre provides training laptops (English OS and Software).
- You are allowed to use the example hulls from the training for commercial purposes.

Trainer

Gerard Petersen is naval architect, founder of RhinoCentre and uses Rhino since 2001 in his projects in the most integrated way. Petersen developed hull design and fairing skills to be able to develop innovative concepts with unique hull shapes like the integrated trimaran Kenau. The trimaran project proved that Rhino is a professional tool to turn an idea into reality.

RhinoCentre

Since 2003 RhinoCentre shares and increases Rhino knowledge in offering training, consultancy and other services to the marine industry worldwide. The best example is the joined development of the Rapid Hull Modeling Methodology with people of several companies and organizations. On the other hand RhinoCentre is in close contact with McNeel & Associates, the developers of Rhino as well as plugin developers to make Rhino even better. RhinoCentre maintains with most of our customers a long lasting relationships based on trust and equality.

Info

Don’t hesitate contacting us for more information at info@rhinocentre.nl or call +31 58 2131855

Example page of the training manual