DYMOLA/Modelica Online Training

Concept

Claytex offer a number of structured training courses and workshops from basic DYMOLA and Modelica to more advanced level and application driven. These courses prove invaluable for the new user and group application. In addition, we also provide a more flexible option in both duration and content to look at specific areas of interest where we provide detailed training and guidance.

To improve the accessibility of these training options we have introduced online training with the objective of addressing the following:

- Efficiency of easier scheduling to fit around your commitments and availability
- One to one sessions for focused interaction
- Convenience of shorter sessions
- Ability to focus on user defined issues/applications
- Flexibility to answer specific questions
- Provision of the subject matter expert

SOLUTIONS PARTNER

EDUCATION PARTNER Certified

rFpro

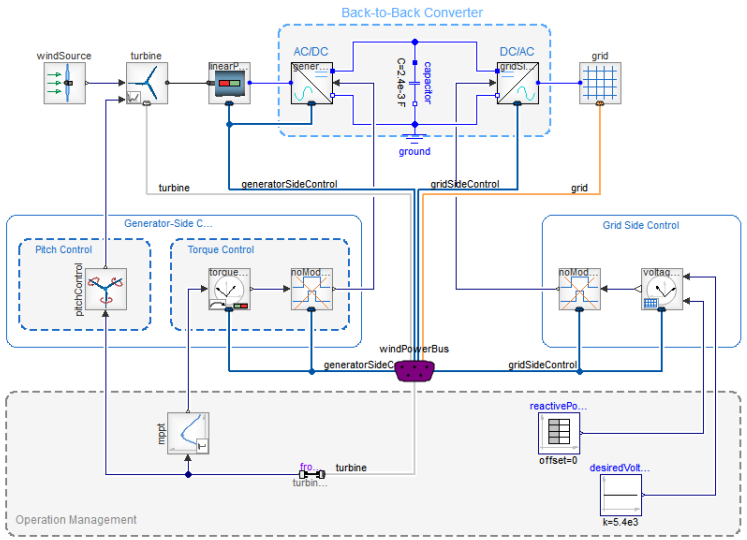
MathWorks Partner

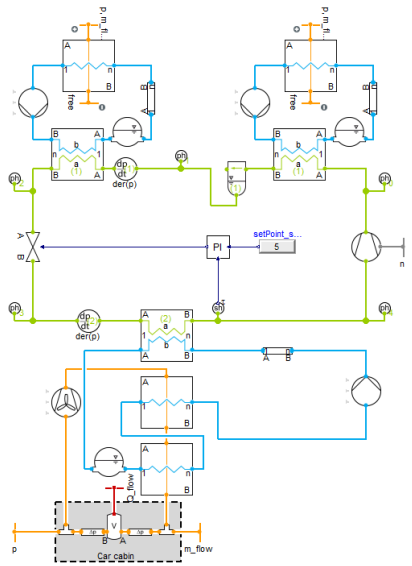
CLAYTEX *Experts in Dymola and Modelica since 1998*

DYMOLA/Modelica Online Training

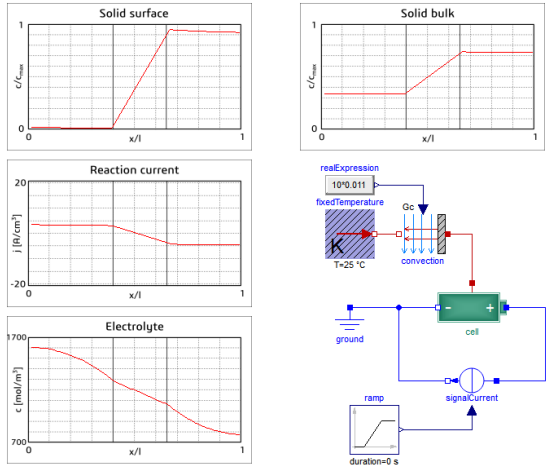
The Structure

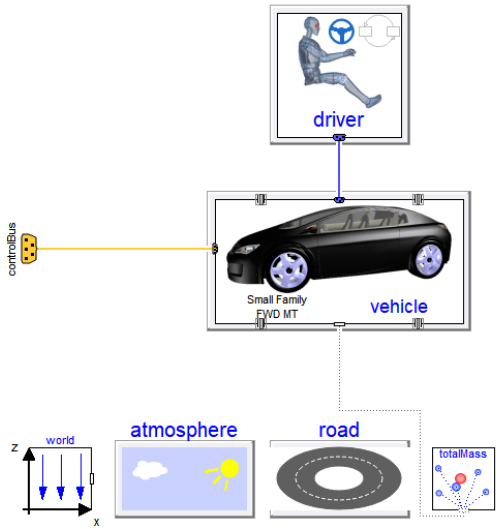
- One hour Webex sessions
- One to one interaction
- User defined topics
- Option to record sessions
- Option of user defined examples





This course may be used to introduce new users or how to approach a new application. The user may choose to define a subject for which a deeper knowledge is required or, in the case of the user supplying the model, using the session to troubleshoot and better optimise that particular model.





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Course costs

- The cost per one hour session is £200 exc. VAT
- The option to record is available for £100 exc. VAT per session

Additional Terms

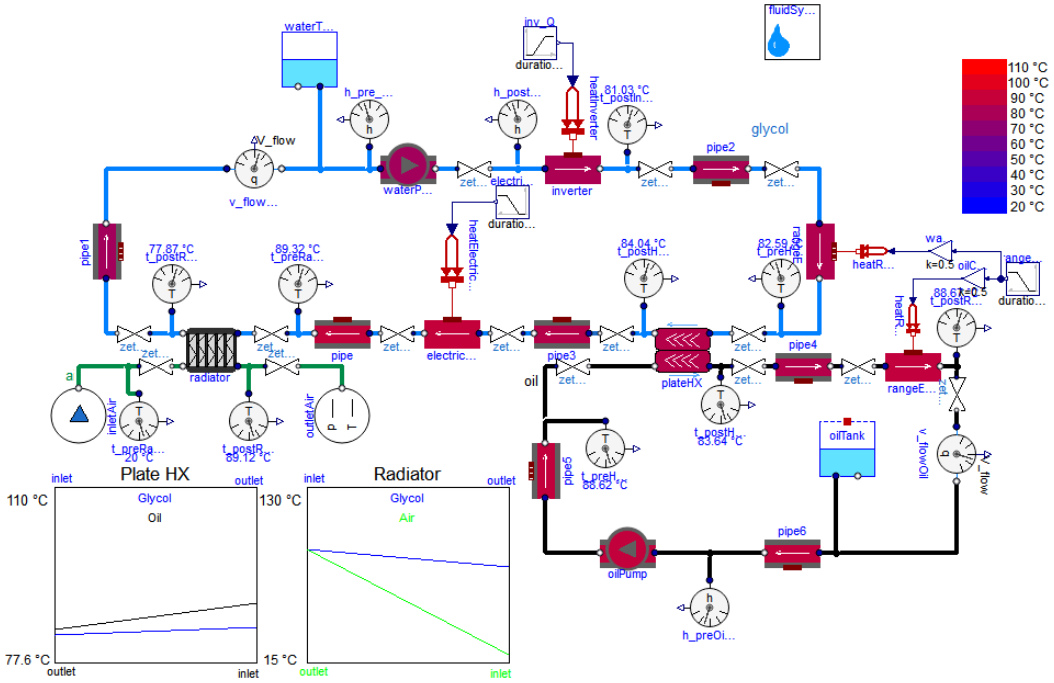
- *Should the user wish to utilise a specific model, this must be supplied to Claytex a reasonable period prior to the training session*
- *The session is designed to be a one to one interaction hence questions will only be permitted from the named user*
- *A scheduled session missed by the named user without reasonable prior notification will be charged in full*

"Claytex provide a very accommodating online support service, we have used it at predominantly quite short notice, drawing upon their wealth of experience to quickly resolve issues without having to raise Support tickets"

Automotive OEM

"The online training and support service allows us to quickly overcome brick walls that we hit from time to time, pinpointing the problem cause within minutes and learning from the sessions. The video service has enabled us to replay the session should we need to refresh our minds".

Energy Research institution



FUNCTIONAL MOCK-UP INTERFACE

```
model Gearbox "Realistic model of a gearbox (based on LossyGear)"
  extends Modelica.Mechanics.Rotational.Icons.Gearbox;
  extends Modelica.Mechanics.Rotational.Interfaces.PartialTwoFlangesAndSupport;

  parameter Real ratio(start=1)
    "Transmission ratio (flange_a.phi/flange_b.phi)";
  parameter Real lossTable[:, 5]=[0, 1, 1, 0, 0]
    "Array for mesh efficiencies and bearing friction depending on speed (see docu of LossyGear)";
  parameter SI.RotationalSpringConstant c(final min=Modelica.Constants.small,
      start=1.0e5) "Gear elasticity (spring constant)";
  parameter SI.RotationalDampingConstant d(final min=0, start=0)
    "(relative) gear damping";
  parameter SI.Angle b(final min=0) = 0 "Total backlash";
  parameter StateSelect stateSelect=StateSelect.prefer
    "Priority to use phi_rel and w_rel as states"
    a ;
  extends Modelica.Thermal.HeatTransfer.Interfaces.PartialConditionalHeatPort(
      final T=293.15);
  Modelica.SIunits.Angle phi_rel(
    start=0,
    stateSelect=stateSelect,
    nominal=1e-4) = flange_b.phi - lossyGear.flange_b.phi
    "Relative rotation angle over gear elasticity (= flange_b.phi - lossyGear.flange_b.phi)";
  Modelica.SIunits.AngularVelocity w_rel(
    start=0,
    stateSelect=stateSelect) = der(phi_rel)
    "Relative angular velocity over gear elasticity (= der(phi_rel))";
  Modelica.SIunits.AngularAcceleration a_rel(start=0) = der(w_rel)
    "Relative angular acceleration over gear elasticity (= der(w_rel))";

equation
  a
end Gearbox;
```

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Contact Claytex

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