Worksheet HU00 & Training Record
Hydraulic Power Units

Email: Course: Provider:

Learning Objectives/Expected Outcomes: (60-120mins)
1. Understand what functions a power unit performs.
2. Understand how the different components in a power unit operate.
3. Learn what features are used to extend the working life of equipment.

Previous Knowledge Required:
Students should have already completed the HE00 ‘Ancillary equipment’ worksheets and have a good knowledge of what hydraulic components are used for.

Terminology:
Tank, reservoir, fluid, pressure filter, return filter, air breather, pump, motor, safety relief valve.

Record of Achievement:
Click the email button (that will appear within each app) to post your results, once training is complete. Enter your LRS endpoint details or training provider email address. Also record progress, times, scores etc. on this training record sheet and keep together with any additional written work to include in the assessment process.

Coursework investigations

Study the operation, types, and uses of ‘power units’ at www.e4training.com/hyd_powerunits/powerunit_basic1.php & 2.php
Learn about the functions it performs and different components used.

Study the performance issues and specification of ‘power units’ at www.e4training.com/hyd_powerunits/powerunit1.php
Explore the performance issues characteristics of different power unit designs.

Learn about the different symbols for equipment used in power units at www.e4training.com/hyd_princip/symbols10.php

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Virtual test rig experiments

Experiment with building a power unit at
https://www.e4training.com/hyd_powerunits/powerunit_basic3.php
- Includes drag and drop building and simple pressure testing.

App date & duration

Experiment with the power unit performance at
- Operate a real-time model of a power unit to study how the temperature and contamination control features operate.

App date & duration

Experiment with the power unit performance at
https://www.e4training.com/design_guides/designpu3.php
- Advanced power unit setup and calculation module.

App date & duration

Interactive quiz to check and reinforce learning

Complete the ‘HU Hydraulic power units’ quiz questions at

Post result when complete.

Quiz name, date, score

Key questions / Plenary

Can you describe the three main functions a reservoir provides?
What is the vital safety device every power unit should contain?
What might go wrong if you fill the reservoir, without checking the cylinder condition?
Why might the system overheat if the fluid level in the reservoir is low?

Record answers: Repeat course if you answer no or tick when complete
And Finally:
Complete this worksheet and keep for your certification records. Submit any written coursework etc. to your training course provider.

Follow-on Course Worksheets:
Potential follow-on worksheets include: HC00 – Hydraulic circuit examples.

Or refer to your individual lesson plan or search the worksheet lists at www.e4training.com/hydraulic_courses/worksheets1.php or courses1.php