

Training your workshop team

Ian Bushby - DECA (Chairman)

Ron Edmonds - Hendrickson

Vinh Lam - Knorr Bremse

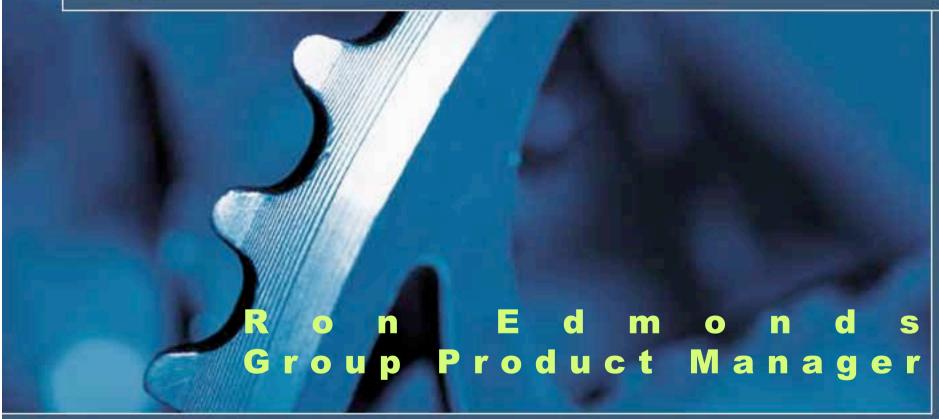
Bill Fulton, Caterpillar

Karl Marke - BPW Transpec

Doug Devlin - Eaton



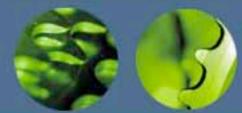
2007 Technical and Maintenance C o n f e r e n c e







Reliable Exceptional Quality Durability



Hendrickson National Training Program

In 2006 Hendrickson launched a series of entry level courses around Australia designed to help mechanics, apprentices, sales, service and spare parts people better understand how suspensions systems on trucks and trailers work, particularly from a Hendrickson perspective.

The need has been growing and we thought we had a real chance to give something back to the industry by running schools that **Give** practical training.



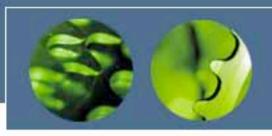


Hendrickson National Training Program

Hendrickson have committed to continuing the courses through out 2008. we appointed Bob Cadden as training officer, responsible for structuring and running the courses.

Bob found in 2007 there are gaps in the skill levels right across the country and we believe that our courses needed to cover a greater range from the basics to servicing to installation and audit level.





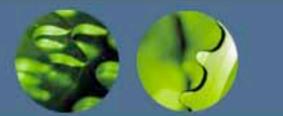
Hendrickson National Training Program

We take students right from the basics, the theory of all types of suspensions, components and their part in the performance of the equipment.

Hendrickson has been collecting feedback for two years from the students and the industry to shape the courses to what is required in tomorrows

transport industry.

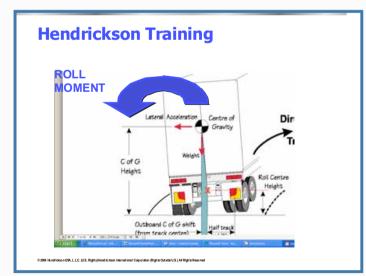


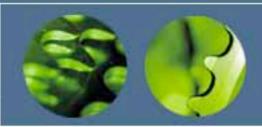


Truck



- roll stability
- load sharing
- air vs spring vs rubber
- and many other specific suspension issues.
- It also focuses on Hendrickson suspensions like the HAS, HN and Primaax, covering:
 - appropriate applications
 - setting up
 - service and maintenance.





Trailer



- The trailer program covers issues such as:
 - making the load road friendly
 - spring vs air suspension
 - axle and suspension vs complete modules
 - lift axles.
- Applications for the Hendrickson Intraax and HT models, including maintenance and repairs, are an important part of the course.





Hendrickson Training



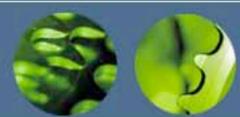
Wear Washers

- Repeat the process for the other side and assemble.
- V Place the Wear Washers on to the Trailing Arms and gently jack the bush into place.
- ∀ Take care not to dislodge the Wear Washers in this process.

Hint:

If the you have difficulty keeping the Wear Washers in place during assembly, Secure them with masking tape.

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Locations





Due to the success of the Hendrickson National Training Program in 2007, we will continue to provide training schools throughout 2008 and beyond.

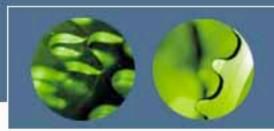
In our show bag this year you will find an "Expression of Interest" form. Please complete & return this form to us, and we will contact you with further details.

2008 NATIONAL SUSPENSION TRAINING PROGRAM

EXPRESSION OF INTEREST

<u>TO:</u>	Hendrickson Asia Pacific Pty Ltd
Fax No:	03 86950028
Date:	
FROM:	
Company Name:	
Contact Name:	
Company Address:	
Phone No:	
FaxNo:	
Email:	
PREFERENCES:	
D (1D) /	
Preferred Date/s:	
Preferred Location/s:	
ATTENDEES:	
Anticipated No. of Attendees:	
Truck:	
Trailer :	
Both Truck & Trailer :	

For more information please call: 03 9767 3400



Air Brake Training

Vinh Lam

Engineering Manager - CVS



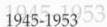
Knorr-Bremse has a long tradition with Air Brakes

Das Berliner Werk der Knorr-Bremse wird nach dem 2. Weltkrieg enteignet und demontiert.



Aktie der Knorr-Bremse AG aus den zwanziger Jahren

Das AAR D8-60 Ventil öffnet der Knorr-Bremse die Tür zum U.S.-Schienenfahrzeugmarkt, Grundlegende Umstrukturierung und Globalisierung des Unternehmens machen Knorr-Bremse zu einem der weltweit führenden Unternehmen der Bremstechnologie.



Die Entwicklung und Fertigung von Bremsgeräten wird im westlichen Teil Deutschlands wiederaufgenommen. München wird Firmensitz des Unternehmens.



1923 rüstete Knorr-Bremse als erstes Unternehmen in Europa Lastkraftwagen mit Vierrad-Druckluftbremsen aus



Knorr-Bremse gestaltet maßgeblich die Bremsentechnologie für Schienen- und Nutzfahrzeuge. Mit dem KE-Steuerventil setzt die Knorr-Bremse den neuen UIC-Standard.



der Knorr-Bremse in München

Die pneumatisch betätigte Scheibenbremse für Nutzfahrzeuge geht in Großserienproduktion.



BOSCH

1999

Der Knorr-Bremse Konzern überschreitet die Umsatzschwelle von 2,5 Mrd. DM.









- Courses & Training provided since 2004
- Developed for the Maintenance Industry as the principle attendees
- Plus, a diverse range of students from:
 - OE Truck Manufacturers / Queensland Transport
 Vehicle Inspectors / Police / RTA / TAFE Teachers /
 Workshop Mechanics / Parts Interpreters / Sales
 People / Fleet Operators, etc







- Training Sessions Available:
 - Bendix Air Brake Training School (2 days)
 - Product Information Evenings (typically 2 hrs)
 - Customised Product Training
- Self Training Material:
 - Videos
 - Training DVD's with Workbooks
 - Interactive Training CD's









Bendix Air Brake Training School

- 2 day curriculum, tailored to new and experienced technicians – covers:
 - Fundamentals of compressed air
 - Operation & Service of Bendix air brake components of dual air brake systems
 - Air Disc Brakes & Drum Brakes
 - Trailer Systems
 - ABS & Traction Control basics







Practice and interaction with brake boards









Bendix Air Brake Training School

Comprehensive Bendix Training Manual

Assessment (exam) on day 2

Certificate awarded











- More information is available:
 - Knorr-Bremse Trade Exhibit Stand
 - Contact us direct: 1300 309 991











Bill Fulton

General Manager Truck Engines Asia Pacific







Caterpillar Engine Training

- Caterpillar Service Learning
- Caterpillar Institutes / Dealers
 - Some Dealers have JV with Caterpillar which is termed Caterpillar Institute
 - Other Dealers have their own internal training departments

Caterpiliar Service Learning

- Provides in depth technical training for Caterpillar Dealer workshop service personnel covering:
 - Systems Operation
 - Testing and Adjusting
 - Troubleshooting
 - Advanced diagnostic
 - Chassis Dyno testing

Caterpinar Service Learning

- Courses provided:
 - Certified Truck Engine Analyst
 - ACERT On Highway Truck Engines
 - Applied Failure Analysis

Caterpillar Institutes / Dealers

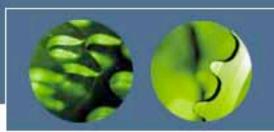
- Caterpillar Institutes are Registered
 Training Organisations that provides both
 apprentice and post trade training for
 Caterpillar Dealers, TEPS Dealers and
 customers.
- Other Dealers have a similar business model that provides the same service but are not a JV



- Courses Provide:
 - Certificate III (Apprenticeship)
 - Diesel mechanic apprenticeship
 - Electronic Technician
 - Air Conditioning
 - Systems Operation
 - Testing and Adjusting

BRW, Transpec

Presentation by Karl Marek



BPW Transpec's Product Range

Different products require different training:

- BPW axles and suspensions
- Ringfeder couplings
- HMF cranes
- Edbro hoists
- Cargo floor



Knorr EB







Why is Product Training important?

- Safety is paramount especially with brakes which are primary safety items.
- Understanding the product means longevity and less down time.

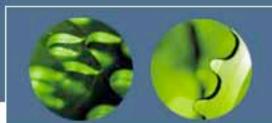
Feedback is wa

 Service partne the product.

New products



on



BPW Transpec Training Structure

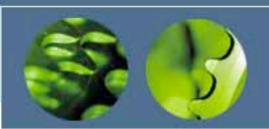
Company Representatives provide a level of product awareness and technical literature when requested.

From time to time overseas suppliers are involved in structured centralised training sessions.

Organised training events at central and regional locations are held regularly.



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Stat e	Date	Course/Int ernal	Location of Training	Name of Course	er Training	# of Customer's Attending	yee Trainin	Descripti on of Training	ation of the	ng Records
VIC	9/05/20	External	Tauran	BPW Product	Yes	Logist	9 Y/IN 8	Mainten	3 hrs	Yes
VIC	14/1 1/12 00	External	Keon ^{ga} Pa Tullama	BPW Product Maintenance	Yes	Tiemas Indust	20	Rreduct Mainten Rreduct	3 hrs	No
VIC	8/11/20 15/10/2	External	rin	BPW Product Maintenance	Yes	ries Star Track	6	Mainten	3 hrs	No
NS W	00 16/0 7/ 2	External	Finley	BPW Product Maintenance	Yes	McNaught s	6	Rreduct Mainten Rreduct	3 hrs	Yes
VIC	00 22/07 / 2	External	Lysterfi eld	BPW Product Maintenance	Yes	Hanson	4	Mainten Brieduct	3 hrs	No
VIC	00 28/07d2	External	Laverto n	BPW Product Maintenance	Yes	Scania	12	Mainten Brieduct	3 hrs	No
VIC	00	External	Mulgra Keon ^{ve}	BPW Product Maintenance	Yes	Woolworth	6	Mainten	3 hrs	No
VIC	1/08/ 2 0 06	External	Pa	BPW Product Maintenance	Yes	Tieman Wdustsies	20	Mainten	3 hrs	No
QLD	27/03/2 00 7	External	Warrick	BPW Product Maintenance	Yes	Transport & Fraser	25	Mainten ance	6 hrs	Yes
QLD	28/03/2 00 7	External	Brisban e	BPW Product Maintenance	Yes	& Fraser Approx 25 Livestock various ompanies	55	Product Mainten	6 hrs	
TAS	8/08/20 06	External	Hobart	BPW Product Maintenance	Yes	aftending. Seaqu Approx 25	5	Mainten	3 hrs	Yes
QLD	29/03/2 00 7	External	Brisban e	BPW Product Maintenance	Yes	various ompanies	55	Mainten	6 hrs	
VIC	6/07/20 15/06/2	External	Hallam Wangar	BPW Product Maintenance	Yes	attending. DHH	4	Mainten	3 hrs	No
VIC	00	External	Wangar att	BPW Product Maintenance	Yes	Stribley	4	Rreduct Mainten	3 hrs	No
VIC	15/0 <i>6</i> /12 00 7	External	Shepa rto n	BPW Product Maintenance	Yes	Graham Thompson Motors	7	Mainten Product ance	3 hrs	No



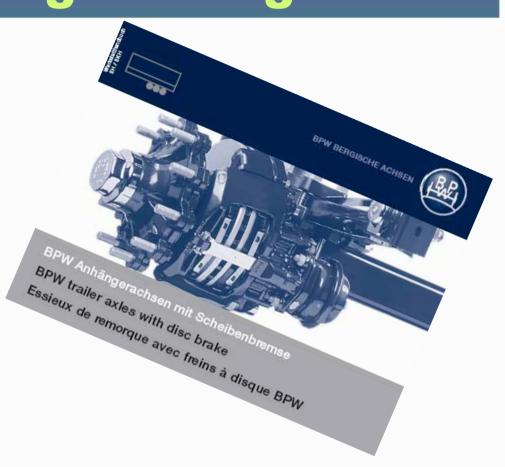
Literature provided during training

- Operator manuals
- Maintenance manuals
- Spare part

catalogues

Did you know that approximately only 35% info is

Torque stickers





- In house training
- At customer's venue
- Conference centres
- Training centres





• It is said that what is for free cannot be no good.

One exception:

BPW training sessions are free to our customers





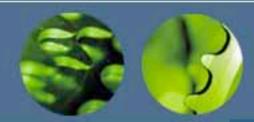
ATA / ARTSA Technical & Maintenance Conference

Doug Devlin

Eaton Pty Ltd







Training Offered

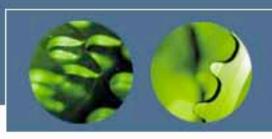
- Medium Duty Transmission
- Heavy Duty Transmission
- AutoShift Gen 2 & Gen 3
- Axle
- Aftermarket Parts



Training Offered

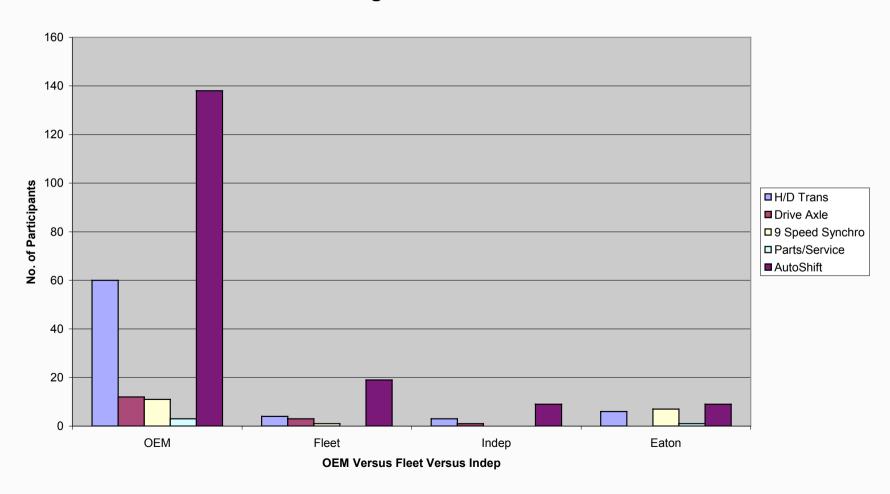
<u>Additional Training Offered – On Site</u>

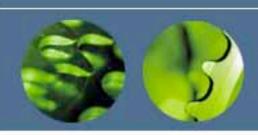
- ServiceRanger
- Driver Familiarisation (AutoShift)
- Clutch
- Mobile Diagnostic Tool (MD Tool)
- Driveline Angle Analysis
- Warranty



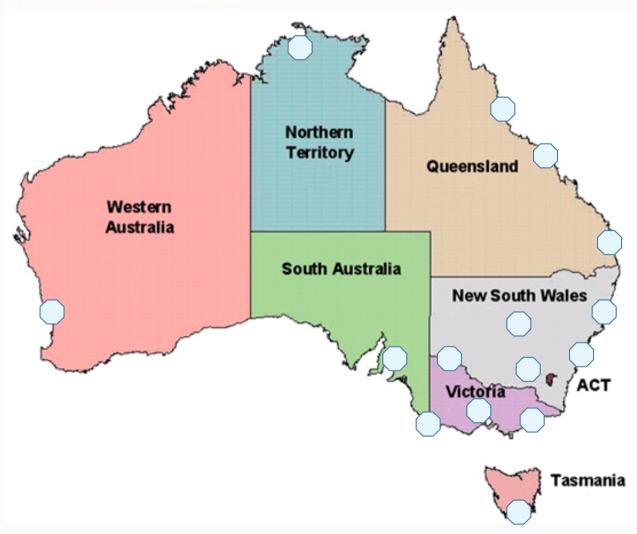
Participants

Training All States YTD 2007





Locations







Locations

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- Kilsyth
- Sale
- Shepparton
- Wodonga
- Bendigo

NSW

- Sydney
- Wagga Wagga
- Dubbo
- Coffs Harbour
- Albury

Queensland

- Brisbane
- Townsville
- Rockhampton
- Toowoomba

South Australia

- Mt. Gambier
- Mildura
- Adelaide

Tasmania

Hobart

<u>N.T.</u>

Darwin

ACT

Canberra

PNG

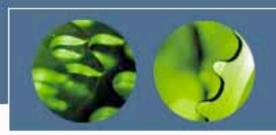
Western Aust

Perth

Indonesia

New Zealand

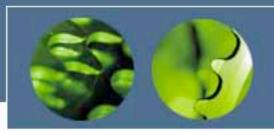
- Auckland
- Christchurch



Notification

 Schedule sent annually to all OEMs & Fleet customers via Email

 Customers notified personally in line with planned visits to relevant States to reinforce training options available





A wise man once said....



welcome to the watering hole of knowledge

