

NEW ZEALAND **MOTOR INDUSTRY**—AMENDMENT OF APPRENTICESHIP ORDER

In the Court of Arbitration of New Zealand.—In the matter of the Apprentices Act 1948; and in the matter of the New Zealand Motor Industry apprenticeship order, dated the 28th day of August 1951, and recorded in 51 Book of Awards 1489.

WHEREAS by section 13 (2) of the Apprentices Act 1948, the Court is empowered to amend any apprenticeship order: And whereas application has been made to the Court by the New Zealand Motor Trades Apprenticeship Committee for amendment of the New Zealand Motor Industry apprenticeship order, dated the 28th day of August 1951, and recorded in 51 Book of Awards 1489: And whereas the Court has heard the employers, workers, and other persons concerned and has considered the recommendations made to it by the said Committee: Now, therefore, the Court, in pursuance and exercise of the powers vested in it by the said Act, doth hereby order as follows:

1. That the said apprenticeship order shall be amended by deleting subclause (a) of clause 10 (Proportion) and substituting the following subclause:

“(a) (i) The proportion of the total number of apprentices to the total number of journeymen employed by any employer shall not be more than one to every journeyman employed.

“(ii) Notwithstanding the foregoing provision the New Zealand Committee on the recommendation of a local Committee, may approve a proportion in excess of one to one in cases where the local Committee has been satisfied that the employer has the necessary facilities for teaching the branch or branches of the industry mentioned in the contract of apprenticeship; provided that in no case shall the proportion of apprentices to journeymen exceed two to one.”

2. That this order shall operate as from the day of the date hereof.

Dated this 22nd day of December 1955.

[L.S.]

W. F. STILWELL, Judge.

DISSENTING OPINION OF MR ALLERBY

I am of the opinion that as the employer enters into an obligation to teach an apprentice the trade to the standard of a competent journeyman, and as the proportion of one to one is already a generous one, especially with the present day position of staff shortages, any increase may lessen the opportunity for a boy to be given full and adequate training during his period of apprenticeship.

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1. That the said apprenticeship order shall be amended in the manner following—

(1) By deleting clause 1 and substituting therefor the following clause:

“*Industry to Which Order Applies.*—The industry to which this order shall apply is the motor industry in the following branches, as referred to in the schedule to this order: Motor mechanics’: automotive electrical: automotive machining: motor cycle mechanics’: automotive diesel mechanics’. Provided that any contract of apprenticeship in the branch ‘tractor mechanics’, as described in clause 1 and the Schedule of the order in force prior to this amending order shall, unless the parties to the contract otherwise elect, continue in effect as a contract in the ‘tractor mechanics’ branch.”

(2) By deleting clause 7 and substituting therefor the following clause:

“*7. Prerequisite Education.*—It shall be necessary for any person desiring to become an apprentice after this order comes into force to produce to the local Committee evidence that he has satisfactorily completed two years’ post-primary education or, having been prevented by exceptional circumstances from completing two years’ post-primary education, has nevertheless attained a standard of education satisfactory to the New Zealand Committee. In any such exceptional cases the local Committee may, with the prior approval of the New Zealand Committee, consent to the apprenticeship and such consent may, if the New Zealand Committee considers it necessary, be given upon the condition that the apprentice shall attend approved classes or take a correspondence course in subjects prescribed by the New Zealand Committee for such time as the New Zealand Committee considers necessary.”

(3) By deleting from the schedule to the order the list of operations and skills for Motor Mechanics and substituting therefor the following:

“1. *Motor Mechanics.*—(a) Basic—for all apprentices in this branch:

- (i) Correct use of files, hack-saws, scrapers, chisels, drills, taps, dies, reamers, spanners and all simple hand tools. Care, maintenance, and methods of sharpening, hardening and tempering all types of hand tools. Care, maintenance, and use of all precision tools such as micrometers, dial gauges and calipers. Use and maintenance of valve-seat cutters, valve-seat hones, valve-facing machines, bushing hones, power drills and grinders. Instruction in soldering, brazing and oxy-acetylene welding practices. Riveting and correct treatment of bolts, studs and locks.

- (ii) General instruction in dis-assembly and assembly of all major petrol engine units. Correct application and use of torque wrenches and all special tools. Methods of measuring and determining limits of petrol engine wear. Fitting cylinder sleeves. Fitting pistons, piston rings and gudgeon pins. Fitting of bearings. Straightening and aligning connecting rods. Boring and honing cylinders. Remetalling bearings. Instruction in valve conditioning and valve grinding. Engine lubrication. Engine troubles and knocks. Repair and maintenance of carburettors, fuel pumps and the fuel system. Valve timing.
- (iii) Modern methods of lubrication. Correct grades and types of oils and greases and when and where to be used. Overhaul and adjustment of clutches, gear and hydraulic transmissions, rear axles. Care and maintenance of cooling systems. Overhaul of water pumps. Overhaul and adjustment of brakes and braking systems. Checking and testing for Warrant of Fitness for road vehicles. Recognition of worn parts by visual inspection and measurement.
- (iv) Ignition timing. Complete engine tune-up procedure including the use of compression gauge, vacuum gauge, and gas analyser. Cleaning and testing spark plugs.
- (v) Care and maintenance of batteries, including battery charging and the mixing of electrolyte. Removing and replacing batteries. Basic electricity. Use of voltmeters, ammeters, and hydrometer in testing batteries and the electrical system. Diagnosing and repairing faults in starters, generators, voltage regulators, lighting system and electrical accessories.

(b) Motor Vehicles. Steering faults and their remedy. Repair of chassis and suspension system. The fitting of wheels, rims and tyres. The fitting and repair of tubeless tyres. Wheel alignment and the recognition of steering faults by visual inspection of tyres.

(c) Tractors. Repair and maintenance of wheeled and track type petrol tractors. Repair of tracks and carriers. Repair and maintenance of all attachments such as hydraulic pumps, controls, power take-off, hoists and winches. Fitting, repair and maintenance of tractor tyres, tubes and wheels. Steering clutches. Adjustment of steering boxes on wheel type tractors. Types of steel wheels and ground grips. Safety precautions in handling tractors."

(4) By deleting from the schedule to the order paragraph (d) of the operations and skills for Automotive Electrical and substituting therefor the following:

"(d) Diagnosing electrical and ignition faults on vehicles, and use of testing equipment for same. Complete overhaul and repairing of starters, generators, and ignition systems; voltage and current regulators. Rewiring of electrical systems; lighting system repairs and adjustments. Carburettor overhaul and adjustment. Fuel system and fuel pump overhaul."

(5) By deleting from the schedule to the order the list of operations and skills for Tractor Mechanics and substituting therefor the following:

"5. *Automotive Diesel Mechanics*.—(a) Basic: (i) Correct use of files, hack-saws, scrapers, chisels, drills, taps, dies, reamers, spanners and all simple hand tools. Care, maintenance, and methods of sharpening, hardening and tempering

all types of hand tools. Care, maintenance, and use of all precision tools such as micrometers, dial gauges and calipers. Use and maintenance of valve-seat cutters, valve-seat hones, valve-facing machines, bushing hones, power drills and grinders. Instruction in soldering, brazing and oxy-acetylene welding practices. Riveting and correct treatment of bolts, studs and locks.

(ii) General instruction in dis-assembly and assembly of all major diesel engine units. Correct application and use of torque wrenches and all special tools. Methods of measuring and determining limits of diesel engine wear. Fitting cylinder sleeves. Fitting pistons, piston rings and gudgeon pins. Fitting of bearings. Straightening and aligning connecting rods. Boring and honing cylinders. Remetalling bearings. Instruction in valve conditioning and valve grinding. Engine lubrication. Engine troubles and knocks.

(iii) Modern methods of lubrication. Correct grades and types of oils and greases and when and where to be used. Overhaul and adjustment of clutches, gear and hydraulic transmissions, rear axles. Care and maintenance of cooling systems. Overhaul of water pumps. Overhaul and adjustment of brakes and braking systems. Checking and testing for Warrant of Fitness for road vehicles. Recognition of worn parts by visual inspection and measurement.

(iv) Care and maintenance of batteries, including battery charging and the mixing of electrolyte. Removing and replacing batteries. Basic electricity. Use of voltmeters, ammeters, and hydrometer in testing batteries and the electrical system. Diagnosing and repairing faults in starters, generators, voltage regulators and the lighting system.

(v) Dis-assembly, assembly and testing of injector nozzles. Some instruction on calibrating and phasing injector pumps, with particular emphasis on the limitation of the field serviceman. Timing the pump. Repair and maintenance of the fuel system, filters and primary lift pump. Testing and diagnosing Diesel engine faults. Storing and handling diesel fuel.

(b) Diesel Motor Vehicle: Care, maintenance and fitting of truck and bus tyres, tubes and wheels—correct loading. Load distribution for articulated units. Hydraulic and air systems for brakes, doors and trailers. Power and remote steering controls.

(c) Diesel Tractors. Repair and maintenance of wheeled and track type tractors. Repair of tracks and carriers. Repair and maintenance of all attachments such as hydraulic pumps, controls, power take-off, hoists and wiches. Fitting, repair and maintenance of tractor tyres, tubes and wheels. Steering clutches. Adjustment of steering boxes on wheel type tractors. Types of steel wheel and ground grips. Safety precautions in handling tractors.

(d) Diesel Earth Moving Equipment. Care, maintenance, and fitting of special tyres, tubes and wheels for earth moving equipment. Repair and maintenance of track type vehicles. Repair of tracks and carriers. Overhaul and maintenance of all hydraulic and air controls and attachments. Hydraulic and air braking systems. Power and remote steering controls. Safety precautions in handling the equipment.”

2. That this order shall operate as from the day of the date hereof.

Dated this 19th day of December 1955.

[L.S.]

A. TYNDALL, Judge.