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Supplement to DAS 51 (DAS 35)

**TRAINING SCHEDULE AND WORKING CONDITIONS
Of the
California Tooling & Machining Apprenticeship Association**

OCCUPATION: Maintenance Machinist O*NET: 51-4041.00M

ARTICLE XIV Term of Apprenticeship and Probation

The standard term of apprenticeship shall be 8000 hours of OJT and 576 hours of RSI, and shall be completed within 4 years; the first 1000 hours of on-the-job training and 72 hours of related instruction shall be a probationary period.

ARTICLE XVI Wage Schedule

Journeyman Wage: **\$28.24** effective: 4-1-2017

Apprentices shall be paid not less than the following:

1 st period	50%	6 months	1000 hours	\$14.12 per hour
2 nd period	53%	6 months	1000 hours	\$15.53 per hour
3 rd period	55%	6 months	1000 hours	\$16.94 per hour
4 th period	58%	6 months	1000 hours	\$18.36 per hour
5 th period	60%	6 months	1000 hours	\$19.77 per hour
6 th period	70%	6 months	1000 hours	\$21.18 per hour
7 th period	80%	6 months	1000 hours	\$22.59 per hour
8 th period	90%	6 months	1000 hours	\$25.42 per hour

Other Compensation: None

Advancement Schedule:

To advance from one period to the next the apprentice shall have met the following requirements:

- A. shall have satisfactorily completed the indicated on-the-job work hours; and
- B. shall have satisfactorily completed the indicated months in the program;
- C. shall have satisfactorily completed the indicated related and supplemental instruction school hours;

Overtime Provision: All overtime shall be paid at the rate of one and one-half times the wage rate for hours worked over 8 hours per day or 40 hours per week. Likewise, overtime must be paid for hours in excess of forty (40) in any one work week.

Time spent in class of Related Instruction shall not be compensated.

Not to interfere with schooling, overtime shall not be permitted when related instruction classes are scheduled.

Hours of Work and Working Conditions

Straight time hours per day: 8 hours; 40 hours per week.

The work day and work week and all other conditions of employment for apprentices shall conform to all applicable laws and regulations and shall not be greater than for those of journeymen.

Overtime shall not be allowed if it will interfere with or impair the training or be detrimental to the health and safety of the apprentice.

ARTICLE XVII Work Training

1. The employer shall see that all apprentices are under the supervision of a qualified journeyman or instructor and shall provide the necessary diversified experience and training in order to train and develop the apprentice into a skilled worker, proficient in all the work processes of the trade as outlined herein.
2. Each apprentice shall be trained in the use of new equipment, materials and process as they come into use in the occupation.
3. Each apprentice shall receive training and education in first aid, safe working practices and in the recognition of occupational health and safety hazards.
4. Each apprentice shall receive training in the recognition of illegal discrimination and sexual harassment.
5. The major work process in which apprentices will be trained as a (although not necessarily in the order listed) and the approximate hours (not necessarily continuous) to be spent on each are as follows:

WORK PROCESSES

Maintenance Machinist

	PROCESSES	Minimum hours	Recommended hours *
A	Job planning & preparation: layout, tool control / selection / coolant change / application, sketching, safety training, estimating	200	300
B	Process control, documentation, & quality: material identification, in-process inspection, reading work orders, final inspection	300	300
C	Shop maintenance: Preventative maintenance, lubrication, coolant changes, calibration, cleaning of machines	300	400
D	Drilling: General drilling, tapping, reaming on a CNC or manual machine	TOTAL of 1,200	240
E	Turning (manual) : set up & operation		240
F	Turning (CNC): set up & operation.		240
G	Milling (manual): set up & operation.		240
H	Milling (CNC): set up & operation.		240
I	Grinding: Manual or CNC setup and operation (surface, cylindrical)	100	400
J	Secondary operations & metallurgy: heat treating, finishing, coating, surface treatment, material testing, (optional - working with composites)	40	200
K	Bench Work: deburring, fit-up, repair, assembly, fabrication, and use of power and hand tools, tool grinding	500	700
L	Drawings, CAD model(s), reading schematics, prints, bills of material	100	200
M	Precision inspection: caliper, micrometer, laser or vision precision metrology instrumentation, writes reports	200	300
N	Process diagnosis, control theory, servos, documentation & quality: material identification, in-process inspection, GD&T/metrology & application, trouble shooting	300	400
O	Valves / Hydraulics / pneumatics equipment: basic operation, installation, tear-down, inspection, repair, maintenance/trouble-shooting, including rigging & pipe tube fitting	500	800
P	Pumps / rotating equipment: basic operation, installation, tear-down, inspection, repair, maintenance & trouble-shooting, including rigging, pipe/tube fitting & vibration analysis	500	1000
Q	Bearings: installation, removal, and failure analysis, including lubrication & trouble-shooting	200	300
R	Mechanical seals, packing, gaskets, O-rings: inspection, installation repair/replacement maintenance and trouble shooting	300	500
S	Gearboxes: basic operation, installation, tear-down inspection, repair, maintenance and trouble-shooting	200	300
T	Power transmission: (linear or acme drives, belt drives, chains, pulleys, sprockets): basic operation, installation, tear-down inspection, repair	300	400

U	Electrical/energetic systems SAFETY: de-power, regulatory & maintenance requirements, including diagnostic & trouble-shooting procedures	100	300
	* Employer may substitute manual, CNC or hand-tool hours for ITEMS D – H in accordance for how the work is actually performed, but must attain 1,200 total hours for those items.		
		Total *	8000
* 8000 hours of On-the-Job Training (OJT) are required to complete the apprenticeship. Any hours falling short of "recommended" in one category must be made up in other categories. If you cannot meet the "minimum" hours in one category, then we will ask the apprentice to fulfill those knowledge requirements through community college classes or other activities.			

ARTICLE XI Related Instruction

Apprentices shall satisfactorily complete prescribed courses of related and supplemental instruction which will not be less than 144 hours per year.

Maintenance Machinist ONET 5-4041.00M Related & Supplemental Instruction	Note: Class Title & Hours may vary between school locations.
Class Title	Approx. No. Class Hours
Machine Tool Technology I	60
Engineering Drawings for Machinist and Industrial Technicians	60
Manufacturing Materials and Processes	60
Measurements and Calculations	72
Special Projects / NCCER Testing	104
Process Technology (Hydraulic, Pneumatics, Pumps/ Valves)	140
Processes Control Technology	60
Shop Safety	10
Hand Tools	10
Min Hours = 576 over 8000 hours of OJT	

ARTICLE XV Ratio

A qualified employer may employ three (3) apprentices when at least one (1) journeymen are regularly employed, and three (3) additional apprentices for each one (1) journeymen employed.