Comparisons of Job Characteristics

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	15.9	16.3	0	Current knowledge level may be sufficient
Mathematics	9.2	13.3	14.2	0	Current knowledge level may be sufficient
Production and Processing	6.0	11.7	10.6	<	Expanded education and/or training may be required
Design	5.2	9.7	14.4	>>	Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	9.0	13.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	11.6	9.5	<	A higher skill level may be required
Operation and Control	5.4	8.7	8.7	0	Current skill level may be sufficient
Quality Control Analysis	5.9	8.2	7.3	<	A higher skill level may be required
Troubleshooting	4.5	6.9	4.8	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.2	4.4	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	5.9	4.8	<	A higher skill level may be required

Repairing	3.4	5.9	4.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	11.1	10.0	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	10.4	10.7	0	Current ability level may be sufficient
Static Strength	5.0	10.2	5.5	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	10.1	9.2	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.1	9.2	0	Current ability level may be sufficient
Trunk Strength	5.7	8.8	6.4	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	8.5	7.5	<	Some improvement in abilities may be required
Rate Control	3.8	8.0	6.8	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Examine products or work to verify conformance to specifications	15
Lay out machining, welding or precision assembly projects	63
Operate metal or plastic fabricating equipment/machinery	54
Read blueprints	10
Read technical drawings	7
Recognize characteristics of metals	62
Set up computer numerical control machines	69
Set up production equipment or machinery	51
Understand machine setup instructions	74
Understand technical operating, service or repair manuals	6
Use hand or power tools	2

Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Patternmakers, Metal and Plastic (51-4062)
Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.