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Unit 13 Getting to know cutting and noncutting operations

Task 03

Announcer: Listen to Lisa and Tim talking about cutting and non-cutting operations.

Lisa: We're learning about so many different technical operations in vocational

school at the moment.

Tim: Yes, you're right! Take cutting operations, for instance, we've learned to

separate them into two different processes. Do you remember what they are?

Lisa: Easy! Cutting and non-cutting operations.

Tim: That's right. And do you know the difference between these two?

Lisa: Of course. ... Cutting operations produce chips during the operation. Non-

cutting operations don't.

Tim: What different cutting operations do you know? Give me some examples.

Lisa: Is this a test?

Tim: No, not really. But I'm interested in how many different cutting operations you

can list.

Lisa: Ok, then. ... Drilling, milling, turning and sawing are cutting operations by

using geometrically defined cutting edges. Grinding and lapping are also cutting operations, but by using geometrically undefined cutting edges.

Tim: Very impressive. I notice that you've paid attention in vocational school.

Lisa: And what about you? What examples of non-cutting operations do you know?

Let's hear from you now.

Tim: That's easy. Stamping, scissoring and punching are typical non-cutting

operations. Furthermore, water-jet cutting, laser-cutting and etching. No chips

are produced during the operation.

Lisa: I see you've also been paying attention to your lessons in vocational school,

Tim. Well done! By the way, I really love water-jet cutting ... would be great to

learn more about it.