

Leseprobe

Christiani

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Operational training · Metal working

Manual material processing

Training documentation



Trainees

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www.christiani.de

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		Metal working
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The "Manual material processing" course will teach you the following knowledge and skills in accordance with the Training Ordinance for the apprenticed occupation of an industrial mechanic, specialising in operating technology:

- ▶ To read, use and create technical documents
- ▶ To distinguish, assign and handle raw materials and supplies
- ▶ To consider the material properties of steel, brass, copper and plastics during processing
- ▶ To plan and manage workflows and movement sequences
- ▶ To scribe and mark objects
- ▶ To align and clamp tools and workpieces
- ▶ To apply manufacturing processes for material cutting operations such as filing, sawing, drilling, thread cutting and reaming
- ▶ To machine workpieces by drilling and countersinking
- ▶ To separate materials by shearing, sawing and chiselling
- ▶ To carry out cold forming by bending
- ▶ To join components by screwing and pinning
- ▶ To check lengths, angles, radii, surfaces, bores, counterbores and threads by measuring, fitting and using gauges
- ▶ To check and evaluate production results
- ▶ To maintain equipment

Note:

The detailed learning objectives are specified prior to each exercise.

		Metal working
	Manual material processing	
	Basic learning objectives	

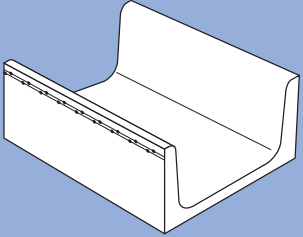
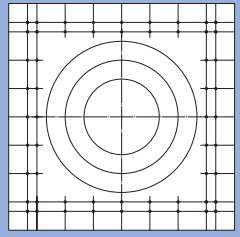
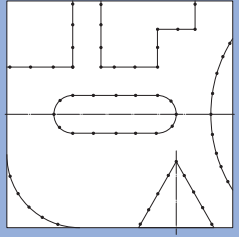
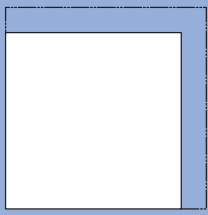
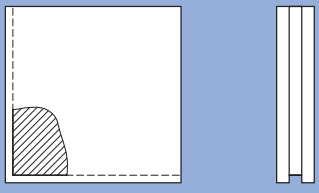

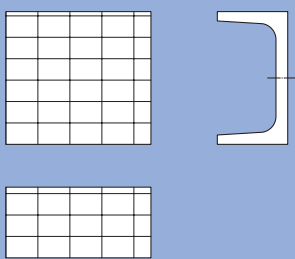

In addition to the specified skills-based and knowledge-based learning objectives, the guiding text method promotes the following key qualifications in the area of manual material processing in particular:

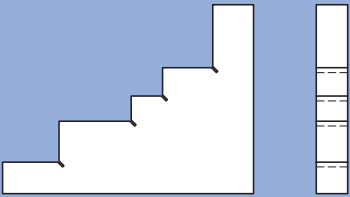
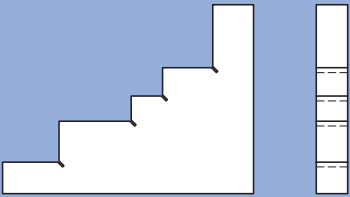


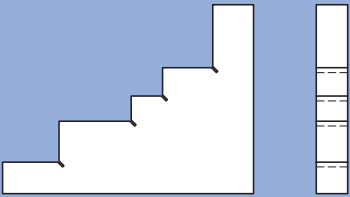

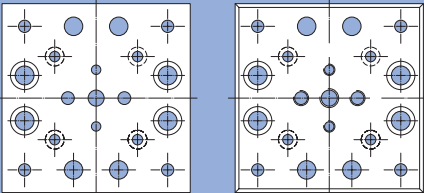
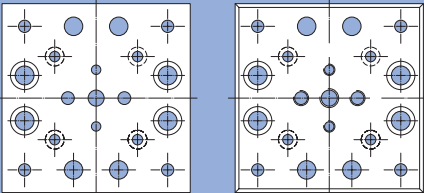
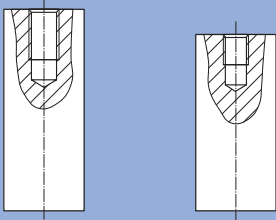
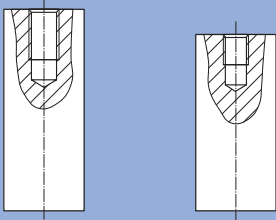
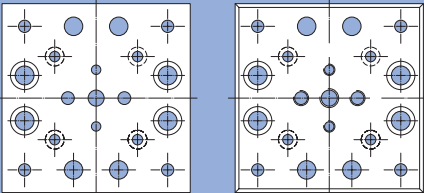
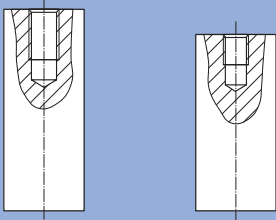
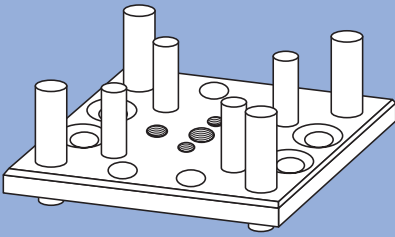
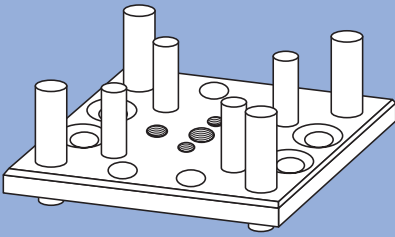
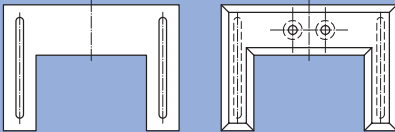
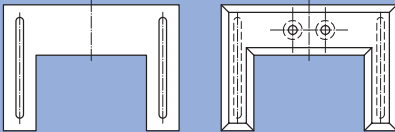
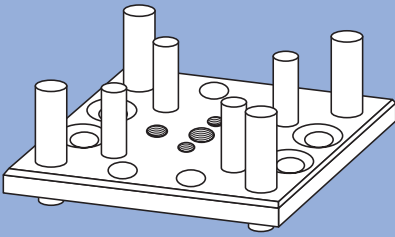
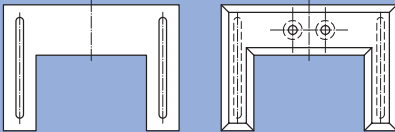
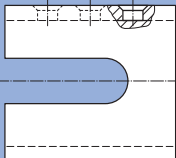
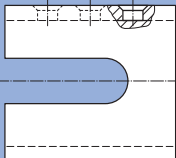
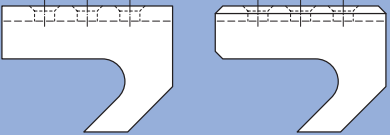
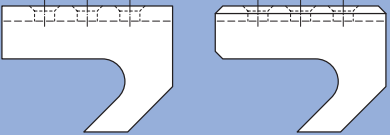
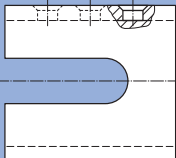
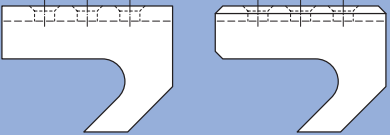
- ▶ How to identify gaps in knowledge and overcome these, sometimes independently
- ▶ How to plan workflows independently
- ▶ How to carry out tasks methodically and rationally
- ▶ How to carry out tasks as part of a team
- ▶ Self-monitoring, identifying errors independently, analysing them and preventing them from occurring again in the future
- ▶ The ability to evaluate one's own performance objectively
- ▶ How to deal with work colleagues communicatively.

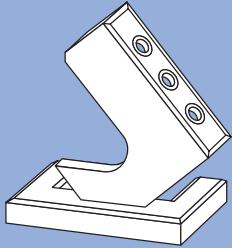
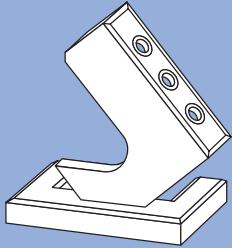
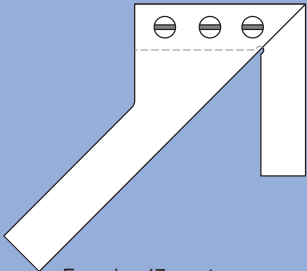
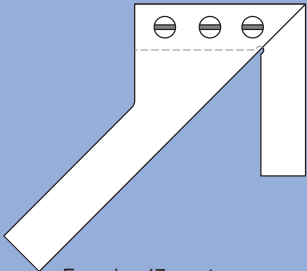
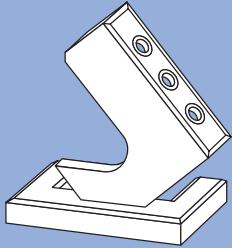
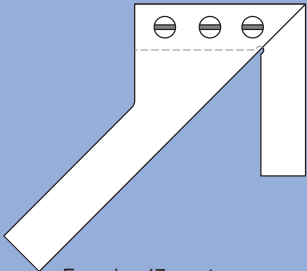


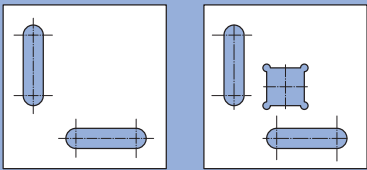
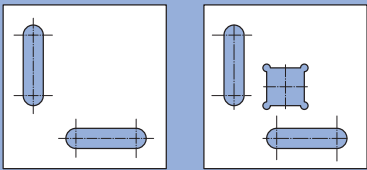

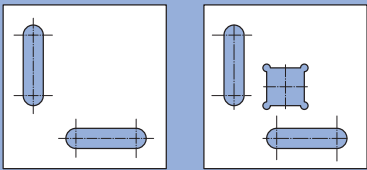
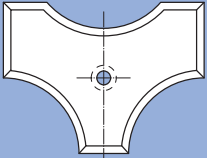
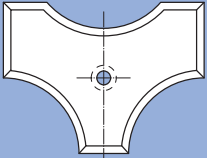
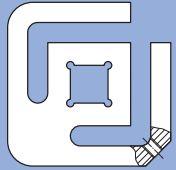
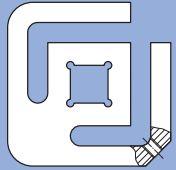
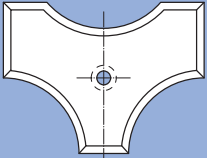
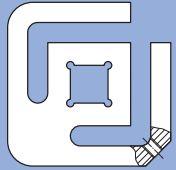
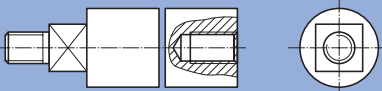
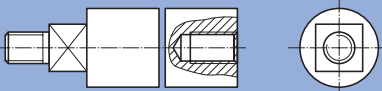
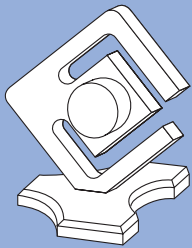
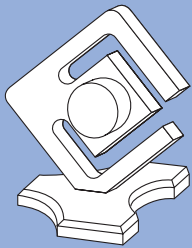
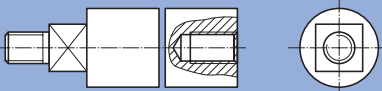
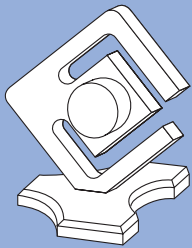
Working individually, in groups or individually on group-planned activities promotes the following skills:

- ▶ Quality-oriented conduct
- ▶ Responsible conduct
- ▶ Business conduct
- ▶ Environmentally responsible conduct
- ▶ Organisational skills
- ▶ Problem-solving skills
- ▶ Communication skills
- ▶ Cooperation skills
- ▶ Work in a team
- ▶ Willingness to learn

		Metal working
	Manual material processing	
	Basic learning objectives	

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Overview of skills exercises													

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