



## **Web-based training on SINUMERIK Operate Curriculum**

### **1) Fundamentals of SINUMERIK Operate**

- Features of SINUMERIK Operate
- Operation and structure of SINUMERIK Operate
- Functional scope of SINUMERIK Operate

### **2) Fundamental principles of machining process**

- Learning about the machining process
- Learning about the resources used
- Gathering of first impressions of SINUMERIK Operate

### **3) Fundamental principles of cutting tools**

- Geometrical components of cutting tools
- Modern cutter materials and their use
- Tools, tool adapters and their application areas

### **4) Fundamentals of NC programming**

- Cartesian and polar coordinate systems
- Reference points and zero points in the working area
- Structure and commands of NC programs

### **5) Set up and production with SINUMERIK Operate**

- Prepare machines for production
- Set up workpieces
- Set up tools
- Machine workpiece

### **6) Programming with SINUMERIK Operate**

- Programming modes, application, and methods
- Programming in SINUMERIK Operate
- Cycles for drilling, turning, and milling
- Simulation programs

**Certifications listed on following pages.**

# Certificate of attendance

## WBT - Fundamentals of SINUMERIK Operate

**James Paul Stephens Jr.**

attended the above mentioned training with a total duration of 30 minutes.

The course included the following focus areas:

- Features of SINUMERIK Operate
- Operation and structure of SINUMERIK Operate
- Functional scope of SINUMERIK Operate

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Digital Factory Division  
Motion Control – Machine Tool Systems

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# Certificate of attendance

## WBT – Fundamental principles of machining process with SINUMERIK Operate

James Paul Stephens Jr.

attended the above mentioned training with a total duration of 20 minutes.

The course included the following focus areas:

- Learning about the machining process
- Learning about the resources used
- Gathering of first impressions of SINUMERIK Operate

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# Certificate of attendance

## WBT – Fundamental principles of cutting tools

**James Paul Stephens Jr.**

attended the above mentioned training with a total duration of 20 minutes.

The course included the following focus areas:

- Geometrical components of cutting tools
- Modern cutter materials and their use
- Tools, tool adapters and their application areas

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# Certificate of attendance

## WBT - Fundamentals of NC programming

**James Paul Stephens Jr.**

attended the above mentioned training with a total duration of 20 minutes.

The course included the following focus areas:

- Cartesian and polar coordinate systems
- Reference points and zero points in the working area
- Structure and commands of NC programs

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# Certificate of attendance

## WBT – Set up and production with SINUMERIK Operate

**James Paul Stephens Jr.**

attended the above mentioned training with a total duration of 20 minutes.

The course included the following focus areas:

- Prepare machines for production
- Set up workpieces
- Set up tools
- Machine workpiece

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# Certificate of attendance

## WBT - Programming with SINUMERIK Operate

**James Paul Stephens Jr.**

attended the above mentioned training with a total duration of 20 minutes.

The course included the following focus areas:

- Programming modes, application and methods
- Programming in SINUMERIK Operate
- Cycles for drilling, turning and milling
- Simulation programs

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