

# Виртуальный практикум: Обработка листового металла: sheet Metalwork Technology

Виртуальный практикум

[Демо-версия](#)

## Структура курса

### Equipment and Tools Used for Cutting Sheet Metal and Safe Working Practices

#### Aims and Keywords

- Aims and Keywords: Equipment and Tools Used for Cutting Sheet Metal and Safe Working Practices

#### i-ACT: Completing a Risk Assessment

- Using Angle Grinders Safely
- Completing a Risk Assessment Before Using an Angle Grinder
- Aspects to Consider When Completing a Risk Assessment
- Aspects of Risk Assessments

#### i-ACT: General Safety and Legislation

- General Safety and Legislation
- Health and Safety
- General Safety and Legislation

#### i-ACT: Manual Shears

- Types of Manual Shears
- Types of Manual Shears
- Types of Manual Shears

#### i-ACT: Drilling Machines

- Types of Drilling Machines
- Components of a Drilling Machine
- Types of Drilling Machines
- Components of a Drilling Machine
- Types of Drilling Machines
- Components of a Drilling Machine

#### i-ACT: Components of a Twist Drill Bit

- Components of a Twist Drill Bit
- Components of a Twist Drill Bit
- Components of a Twist Drill Bit

#### i-ACT: Drill Bits

- Types of Drill Bits
- Sharpening Drill Bits
- Types of Drill Bits
- Identifying Drill Bits
- Sharpening Drill Bits
- Types of Drill Bits
- Sharpening Drill Bits

#### i-ACT: Machine Shearing and Punching Equipment

- Machine Shearing and Punching Equipment
- Operation of Machine Shears
- Portable Shearing and Punching Equipment
- Machine Shearing and Punching Equipment
- Operation of Machine Shears
- Machine Shearing and Punching Equipment
- Operation of Machine Shears

### **Equipment and Tools Used for Forming and Fabricating Sheet Metal**

<b>Aims and Keywords</b>	<b>Демо-версия</b>
- Aims and Keywords: Equipment and Tools Used for Forming and Fabricating Sheet Metal	✓
<b>i-ACT: Safe Use of Forming Equipment</b>	<b>Демо-версия</b>
- General Safety, Legislation, Maintenance and Training	✓
- Marking Equipment for Identification	✓
- General Safety, Legislation, Maintenance and Training	✓
- General Safety, Legislation, Maintenance and Training	✓
<b>i-ACT: Forming and Rolling Machines</b>	<b>Демо-версия</b>
- Rolling Machines	✓
- Forming Machines	✓
- Identifying Forming and Rolling Machines	✓
- Forming and Rolling Machines	✓
- Using Forming and Rolling Machines	✓
<b>i-ACT: Safety Devices on Forming Machines</b>	
- Safety Devices on Forming Machines	
- Safety Devices on Forming Machines	
- Safety Devices on Forming Machines	
<b>i-ACT: Forming Stakes</b>	
- Types of Forming Stakes	
- Identifying Forming Stakes	
- Uses of Different Forming Stakes	
- Uses of Different Forming Stakes	
<b>i-ACT: Forming Hammers</b>	
- Types of Forming Hammers	
- Forming Sheet Metal by Hand	
- Identifying Forming Hammers	
- Types of Forming Hammers	
- Forming Sheet Metal by Hand	
- Types of Forming Hammers	
- Forming Sheet Metal by Hand	

### **Techniques Used for Fabricating Sheet Metal**

#### **Aims and Keywords**

- Aims and Keywords: Techniques Used for Fabricating Sheet Metal

**i-ACT: Strengthening Sheet Metal**

- Methods of Strengthening Sheet Metal
- Methods of Strengthening Sheet Metal
- Identifying Methods of Strengthening Sheet Metal
- Strengthening Sheet Metal

**i-ACT: Fabricating Sheet Metal**

- Fabrication Dies
- Fabrication Techniques
- Shrinking and Stretching Metal
- Flanging Dies
- Fabricating Sheet Metal
- Fabricating Sheet Metal

**i-ACT: Sheet Metal Development**

- Sheet Metal Development
- Sheet Metal Development
- Identifying Sheet Metal Developments
- Sheet Metal Development

**i-ACT: Developing Shapes and Patterns**

- Developing Shapes
- Creating a Rectangle to Round Half-Plan and Side Elevation
- Parallel and Radial Line Development
- Triangulation
- Developing Shapes

**i-ACT: Developing Elbows, Bends, and Breeches**

- Developing a 90-Degree Transition Elbow
- Developing Elbows, Bends, and Breeches
- Developing Elbows and Bends
- Developing Breeches and Lobster Back Cows
- Developing Elbows, Bends, and Breeches

**i-ACT: Clamps Used in Metalwork**

- Clamps Used in Metalwork
- Clamps Used in Metalwork
- Clamps Used in Metalwork

**i-ACT: Non-thermal Sheet Metal Joining**

- Non-thermal Sheet Metal Joining
- Non-thermal Sheet Metal Joining
- Non-thermal Sheet Metal Joining Techniques

**i-ACT: Thermal Sheet Metal Joining**

- Types of Brazing
- Brazing and Soldering
- Differentiating Between Brazing and Soldering
- Types of Brazing and Soldering
- Thermal Sheet Metal Joining

**i-ACT: Electric Resistance Welding (ERW)**

- Spot-Welding as the Primary Type of ERW
- Other Types of ERW
- Overcoming Common Problems with ERW
- Uses of ERW and Spot-Welding
- Factors Affecting ERW and Spot-Welding
- Identifying Different ERW Methods
- Identifying Materials and Factors Involved in ERW

**i-ACT: Checking Sheet Metal Products for Dimensional Accuracy**

- Types of Micrometers and Callipers
- Dimensional Accuracy and Distortion
- Methods and Tools Used to Reduce Distortion
- Types of Callipers and Micrometers
- I-Test: Dimensional Accuracy and Distortion

**i-ACT: Restoring the Work Area Following Fabrication**

- Restoring the Work Area Following Fabrication
- Restoring the Work Area Following Fabrication
- Restoring the Work Area Following Fabrication

**Practical Tasks for Sheet Metalwork and Fabrication of Materials**

**Aims and Keywords**

- Aims and Keywords: Practical Tasks for Sheet Metalwork and Fabrication of Materials

**i-Practice: Setting Up and Checking a Guillotine Prior to Operation**

- Setting Up and Checking a Guillotine Prior to Operation (Training) Практикум-тренинг.
- Setting Up and Checking a Guillotine Prior to Operation Практикум-контроль.

**i-Practice: Setting Up and Checking a Notching Machine Prior to Operation**

- Setting Up and Checking a Notching Machine Prior to Operation (Training) Практикум-тренинг.
- Setting Up and Checking a Notching Machine Prior to Operation Практикум-контроль.

**i-Practice: Fabricating a Fan Housing Unit**

- Fabricating a Fan Housing Unit — Part 1 (Training) Практикум-тренинг.
- Fabricating a Fan Housing Unit — Part 1 Практикум-контроль.
- Fabricating a Fan Housing Unit — Part 2 (Training) Практикум-тренинг.
- Fabricating a Fan Housing Unit — Part 2 Практикум-контроль.

**i-Practice: Hollowing and Planishing a Bowl**

- Hollowing and Planishing a Bowl (Training) Практикум-тренинг.
- Hollowing and Planishing a Bowl Практикум-контроль.

**i-Practice: Developing a Pattern for a Cone with a Pitch**

- Developing a Pattern for a Cone with a Pitch (Training) Практикум-тренинг.
- Developing a Pattern for a Cone with a Pitch Практикум-контроль.