



معرض  
الفلاد  
والصلب  
مكينات  
تكنولوجيا  
معدات  
الحدود 16



**STEEL  
FAB**  
MACHINERY  
TECHNOLOGY  
EQUIPMENT  
16<sup>TH</sup> EDITION

**13 - 16  
JANUARY 2020**  
Expo Centre Sharjah  
United Arab Emirates

## Welding Competition Process / Program

### 1.0 Welding Processes and Positions

1.1 SMAW (Shield Metal Arc Weld) – Position **1G – 2G – 3G & 4G**

1.2 MEITI will provide as reference for the above processes a Welding Procedure Specification (As per AWS recommendation)

### 2.0 Material and Electrodes

2.1 Each Participant will prepare the required material for specified competition module (Sketch drawing to be advised later)

2.2 Material will be **Carbon Steel ASTM A 36 Thickness 12.7 mm**

2.3 Electrode usage for **SMAW (E 7018)**

### 3.0 Welding Competition Program

#### 3.1 Evaluation References

- Weld Quality as per Visual Inspection and / or NDT
- Travel speed as per attached WPS
- WPS implementation

#### 3.2 **Round 1 (Day 1)**

3.2.1 The competition will cover 24 – 36 Participants and each representative will perform one weld **4G position** on selected weld as per Module sketch.

WPS No.	:	Attached
Welding Process	:	SMAW
Base Metal	:	As per WPS
Base Metal Thickness	:	As per WPS
Filler Metal	:	As per WPS
Gas	:	N/A
Test Requirements	:	Visual Testing Or Ultrasonic Testing

3.2.2 The welded test coupon will be subjected to Visual or NDT test i.e. Ultrasonic test.

3.2.3 After completion the test coupons for all Participants, the Jury will select the best 06 – 12 welders and will be qualified for Round 2

### 3.3 Round 2 (Day 2)

- 3.3.1 The selected welders will perform welds (1F, 2G, 3G & 4G) on the Module; the competition time per batch will be for each welder 2 – 3 hours.
- 3.3.2 The welded test coupon will be subjected to Visual or NDT test i.e. Ultrasonic test.
- 3.3.3 After completion the test coupons for all Participants, the Jury will select the best 10 welders and will be qualified for Round 3

### 3.4 Round 3 (Day 3)

- 3.4.1 The selected welders will perform welds (3G & 4G) on the Module, the competition period will be for each welder 1 hours.
- 3.4.2 The welded test coupon will be subjected to Visual or NDT test i.e. Ultrasonic test.
- 3.4.3 After completion the test coupons for all Participants, the Jury will select the best 3 welders and nominate the winners in order (3<sup>rd</sup>, 2<sup>nd</sup> & 1<sup>st</sup>).

### 3.5 Participants Certificates

All participants will get an (**Attendance Certificate**), and the winners in the last round will get an (**Institutional Certificate**) from MEITI

### 3.6 Winner Prize for the Best Welder @SteelFab 2020

- ✓ Titled as Best welder @ SteelFab 2020.
- ✓ The winner will be featured on SteelFab website until the next edition promotion.
- ✓ Full Lincoln Electric safety gear.
- ✓ Lincoln Electric will also provide the winner with a portable welding machine.
- ✓ Winner will receive an Institutional Certificate from MEITI (Middle East Industrial Training Institute)

Competition Partner



Judging Panel Partner

