



F48 Exoskeletons and Exosuits

All F48 technical subcommittees will be addressing safety, quality, efficiency, and performance of exoskeletons and exosuits. The objectives will focus on all applications which currently include industrial, medical, military and consumer use. To support the development and maintenance of F48 international consensus standards, the committee will host workshops and coordinate with various related stakeholder organizations.



Formed September 2017

www.astm.org/COMMIT/F48

Subcommittees

F48.01 — Design and Manufacturing

Materials, systems and components - includes design, configuration, testing, sensing, assembly, cycle testing, degradation, manufacturing GMP

F48.02 — Human Factors and Ergonomics

Occupational, usability, comfort, interfaces, human performance, training, biomechanics

F48.03 — Task Performance and Environmental Considerations

Productivity and Quality; Flow and Task performance, Environmental considerations and reporting, Hazards, biomechanics, tooling,

F48.04 — Maintenance and Disposal

Maintenance, cleaning, repair, reuse, recycle, hygiene

F48.05 — Security and Information Technology

Data collection and security, software integration and communications, reporting

F48.91 — Terminology

Standards

- Ensure safety, quality and reliability
- Emerging Industry Support
- Responsive
- Industry Lead
- Built on Consensus
- Helping Everyone
- Voluntary until Referenced

Industries Impacted

- Industrial
- Medical
- Military
- Consumer
- Emergency Response

Technical Considerations

- Passive & Active Systems
- Enhancing and Decreasing Effects
- Physical & Cognitive Augmentation

Life Cycle Approach

- Before it's on a Person
- Putting on the Product
- On the User & In Use
- After its been Used
- Software, Reporting, Comm's

To join ASTM Committee F48 contact Pat Picariello
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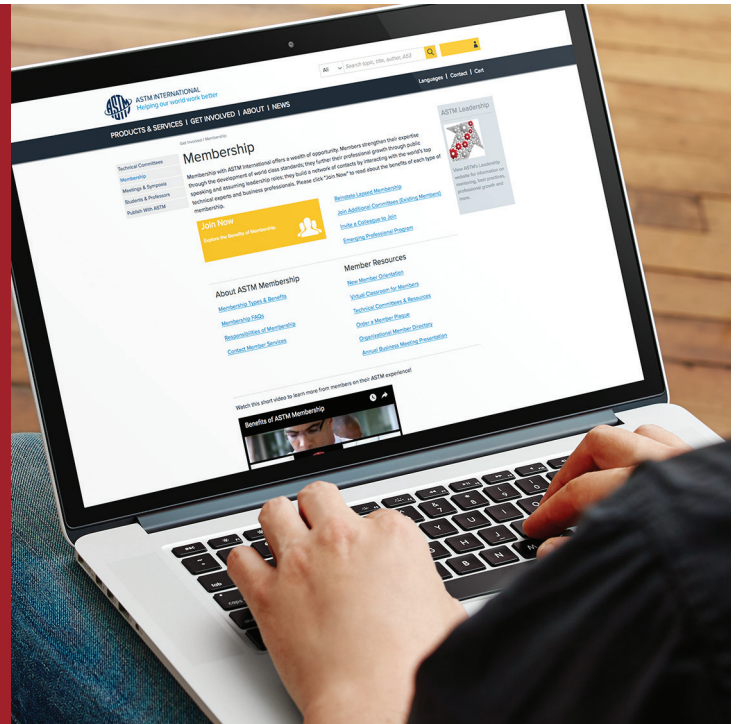
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2017-2018 Membership is Free

- 1**
Directly
Impact the
Content
- 2**
Network
with fellow
experts
- 3**
Lead
Standards
Development
- 4**
Attend F48
meetings
(OPEN)

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Supporting ASTM Experts

Materials

- E54** — Homeland Security Applications
- E54.09** — Response Robotics
- F45** — Driverless Automatic Guided Industrial Vehicles
- F23** — Personal Protective Clothing and Equipment
- D13** — Textiles D13.50 Smart Textiles
- F04** — Medical and Surgical Materials and Devices
- F04.31** — Neurosurgical Standards
- F04.25** — Spinal Devices
- F18** — Electrical Protective Equipment for Workers
- F08** — Sports Equipment, Playing Surfaces, and Facilities (recreational)
- F15** — Consumer Products (recreational)

Testing & Evaluation

- E07** — Nondestructive Testing
- E08** — Fatigue and Fracture
- E28** — Mechanical Testing
- E34** — Occupational Health and Safety

Materials & Processing

- A01** — Steel, Stainless Steel and Related Alloys
- A05** — Metallic-Coated Iron and Steel Products
- B07** — Light Metals and Alloys
- C16** — Thermal Insulation
- E57** — 3D Imaging Systems
- F42** — Additive Manufacturing Technologies

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